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Web Development with MongoDB and Node - Bruno Joseph D'mello 2017-09-29

Use the two popular web development stacks, Node.js and MongoDB, to build full-featured web applications About This Book Learn the new ECMAScript along with Node 8 and MongoDB to make your application more effective. Get the up-to-date information required to launch your first application prototype using the latest versions of Node.js and MongoDB. A practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as angular4 and hapi Who This Book Is For The book is designed for JavaScript developers of any skill level who want to get up-and-running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only prerequisite for this book. What You Will Learn Work with Node.js building blocks Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Automate test cases using Gulp Reduce your web development time by integrating third-party tools for web interaction. Deploy a development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore single-page application frameworks to take your web applications to the next level In Detail Node.js builds fast, scalable network applications while MongoDB is the perfect fit as a high-performance, open source NoSQL database solution. The combination of these two technologies offers high performance and scalability and helps in building fast, scalable network applications. Together they provide the power for manage any form of data as well as speed of delivery. This book will help you to get these two technologies working together to build web applications quickly and easily, with effortless deployment to the cloud. You will also learn about angular 4, which consumes pure JSON APOIs from a hapi server. The book begins by setting up your development environment, running you through the steps necessary to get the main application server up-and-running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools to interact with web apps. You will see how to use controllers and view models to generate reusable code that will reduce development time. Toward the end, the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB, Node.js, and some of the most powerful and popular frameworks. Style and approach A practical guide with clear instructions to designing and developing a complete web application from start to finish

Getting Started with IBM API Connect: Scenarios Guide - Alex Seriy 2016-09-08

IBM® API Connect is an API management solution from IBM that offers capabilities to create, run, manage, and secure APIs and microservices. By using these capabilities, the full lifecycle of APIs for on-premises and cloud environments can be managed. This IBM Redpaper™ publication describes practical scenarios that show the API Connect capabilities for managing the full API life cycle, creating, running, securing, and managing the APIs. This Redpaper publication is targeted to users of an API Connect based API strategy, developers, IT architects, and technical evangelists. If you are not familiar with APIs or API Connect, we suggest that you read the Redpaper publication Getting Started with IBM API Connect: Concepts, Architecture and Strategy Guide, REDP-5349, before reading this publication.

Intelligent Computing - Kohei Arai 2018-11-01

This book, gathering the Proceedings of the 2018 Computing Conference, offers a remarkable collection of chapters covering a wide range of topics in intelligent systems, computing and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process. Of those 568 submissions, 192 submissions (including 14 poster papers) were selected for inclusion in these proceedings. Despite computer science's comparatively brief history as a formal academic discipline, it has made a number of fundamental contributions to science and society—in fact, along with electronics, it is a founding science of the current epoch of human history ('the Information Age') and a main driver of the Information Revolution. The goal of this conference is to provide a platform for researchers to present fundamental contributions, and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. This book collects state of the art chapters on all aspects of Computer Science, from classical to intelligent. It covers both the theory and applications of the latest computer technologies and methodologies. Providing the state of the art in intelligent methods and techniques for solving real-world problems, along with a vision of future research, the book will be interesting and valuable for a broad readership.

Node.js 8 the Right Way - Jim Wilson 2018-01-04

Node.js is the platform of choice for creating modern web services. This fast-paced book gets you up to speed on server-side programming with Node.js 8, as you develop real programs that are small, fast, low-profile, and useful. Take JavaScript beyond the browser, explore dynamic language features, and embrace evented programming. Harness the power of the event loop and non-blocking I/O to create highly parallel microservices and applications. This expanded and updated second edition showcases the latest ECMAScript features, current best practices, and modern development techniques. JavaScript is the backbone of the modern web, powering nearly every web app's user interface. Node.js is JavaScript for the server. This greatly expanded second edition introduces new language features while dramatically increasing coverage of core topics. Each hands-on chapter offers progressively more challenging topics and techniques, broadening your skill set and enabling you to think in Node.js. Write asynchronous, non-blocking code using Node.js's style and patterns. Cluster and load balance services with Node.js core features and third-party tools. Harness the power of databases such as Elasticsearch and Redis. Work with many protocols, create RESTful web services, TCP socket clients and servers, and more. Test your code's functionality with Mocha, and manage its life cycle with npm. Discover how Node.js pairs a server-side event loop with a JavaScript runtime to produce screaming fast, non-blocking concurrency. Through a series of practical programming domains, use the latest available ECMAScript features and harness key Node.js classes and popular modules. Create rich command-line tools and a web-based UI using modern web development techniques. Join the smart and diverse community that's rapidly advancing the state of the art in JavaScript development. What You Need: Node.js 8.x Operating system with bash-like shell OMQ (pronounced "Zero-M-Q") library, version 3.2 or higher Elasticsearch version 5.0 or higher jq version 1.5 or higher Redis version 3.2 or higher

Node. JS 6. X Blueprints - Fernando Monteiro 2016-09-30

Create stunning web, desktop, and mobile applications using this definitive guide About This Book* If you

are looking to create stunning applications with Node.js from scratch, then this is the ideal book for you* It covers a wide variety of applications so you can effectively integrate third-party libraries and other front-end frameworks with Node.js* The projects will guide you through leveraging all the new features introduced in Node.js 4.X Who This Book Is For This book caters to developers who are looking to build projects right from a simple website to more complex one such as a blog, chat application, a photography site, and a lot more. A Basic knowledge of JavaScript and Node.js would be extremely beneficial. What You Will Learn* Explore MVC design pattern in Node.js* Build solid architectures by following test-driven development* Look beyond web applications and create your own desktop app with Node.js* Develop single page applications using Node.js with the RESTful APIs, MongoDB, and ORM* Master the Express framework and build a complete application with a real database* Create a real-time and fully functional online chat application with Socket.IO In Detail Node.js is the most popular framework to create server-side applications today. Be it web, desktop, or mobile, Node.js comes to your rescue to create stunning real-time applications. Node.js 4.x Blueprints will teach you to build these types of projects in an easy-to-understand manner. The key to any Node.js project is a strong foundation on the concepts that will be a part of every project. The book will first teach you the MVC design pattern while developing a Twitter-like application using Express.js. In the next chapters, you will learn to create a website and applications such as streaming, photography, and a store locator using MongoDB, MySQL, and Firebase. Once you're warmed up, we'll move on to more complex projects such as a consumer feedback app, a real-time chat app, and a blog using Node.js with frameworks such as loopback.io and socket.io. Finally, we'll explore front-end build processes, Docker, and continuous delivery. By the end of book, you will be comfortable working with Node.js applications and will know the best tools and frameworks to build highly scalable desktop and cloud applications.

Node.js 6.x Blueprints - Fernando Monteiro 2016-08-26

Create stunning web applications and Restful APIs from start to finish with Express, Loopback, MongoDB, and MySQL using this definitive guide About This Book Create stunning applications with Node.js from scratch, no matter the goal Discover a wide variety of applications you can effectively integrate third-party libraries and other front-end frameworks with Node.js Leverage all the new features introduced in Node.js 6.X Who This Book Is For This book caters to developers who are looking to build projects right from a simple website to more complex one such as a blog, chat application, a photography site, and a lot more. A Basic knowledge of JavaScript and Node.js would be extremely beneficial. What You Will Learn Explore MVC design pattern in Node.js Build solid architectures by following test-driven development Look beyond web applications and create your own desktop app with Node.js Develop single page applications using Node.js with the RESTful APIs, MongoDB, and ORM Master the Express framework and build a complete application with a real database Create a real-time and fully functional online chat application with Socket.IO In Detail Node.js is the most popular framework to create server-side applications today. Be it web, desktop, or mobile, Node.js comes to your rescue to create stunning real-time applications. Node.js 6.x Blueprints will teach you to build these types of projects in an easy-to-understand manner. The key to any Node.js project is a strong foundation on the concepts that will be a part of every project. The book will first teach you the MVC design pattern while developing a Twitter-like application using Express.js. In the next chapters, you will learn to create a website and applications such as streaming, photography, and a store locator using MongoDB, MySQL, and Firebase. Once you're warmed up, we'll move on to more complex projects such as a consumer feedback app, a real-time chat app, and a blog using Node.js with frameworks such as loopback.io and socket.io. Finally, we'll explore front-end build processes, Docker, and continuous delivery. By the end of book, you will be comfortable working with Node.js applications and will know the best tools and frameworks to build highly scalable desktop and cloud applications. Style and approach This is an easy-to-follow guide full of practical examples. This book takes a project-based approach and each chapter contains step-by-step instructions to create stunning applications across different application domains from scratch.

Node Cookbook - Bethany Griggs 2020-11-25

Discover practical recipes to get to grips with Node.js concepts and programming models for delivering a scalable server-side for your applications Key Features Implement practical solutions for scaling, securing,

and testing your Node.js web apps effectively Build and deploy scalable microservices architecture with the power of Node.js 14 Discover techniques for debugging and testing Node.js applications Book Description A key technology for building web applications and tooling, Node.js brings JavaScript to the server enabling full-stack development in a common language. This fourth edition of the Node Cookbook is updated with the latest Node.js features and the evolution of the Node.js framework ecosystems. This practical guide will help you to get started with creating, debugging, and deploying your Node.js applications and cover solutions to common problems, along with tips to avoid pitfalls. You'll become familiar with the Node.js development model by learning how to handle files and build simple web applications and then explore established and emerging Node.js web frameworks such as Express.js and Fastify. As you advance, you'll discover techniques for detecting problems in your applications, handling security concerns, and deploying your applications to the cloud. This recipe-based guide will help you to easily navigate through various core topics of server-side web application development with Node.js. By the end of this Node book, you'll be well-versed with core Node.js concepts and have gained the knowledge to start building performant and scalable Node.js applications. What you will learn Understand the Node.js asynchronous programming model Create simple Node.js applications using modules and web frameworks Develop simple web applications using web frameworks such as Fastify and Express Discover tips for testing, optimizing, and securing your web applications Create and deploy Node.js microservices Debug and diagnose issues in your Node.js applications Who this book is for The book is for web developers who have knowledge of JavaScript and want to gain a broad understanding of Node.js concepts for server-side development.

iOS and macOS Performance Tuning - Marcel Weiher 2017-02-24

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. In iOS and macOS™ Performance Tuning, Marcel Weiher drills down to the code level to help you systematically optimize CPU, memory, I/O, graphics, and program responsiveness in any Objective-C, Cocoa, or CocoaTouch program. This up-to-date guide focuses entirely on performance optimization for macOS and iOS. Drawing on 25 years of experience optimizing Apple device software, Weiher identifies concrete performance problems that can be discovered empirically via measurement. Then, based on a deep understanding of fundamental principles, he presents specific techniques for solving them. Weiher presents insights you won't find anywhere else, most of them applying to both macOS and iOS development. Throughout, he reveals common pitfalls and misconceptions about Apple device performance, explains the realities, and helps you reflect those realities in code that performs beautifully. Understand optimization principles, measurement, tools, pitfalls, and techniques Recognize when to carefully optimize, and when it isn't worth your time Balance performance and encapsulation to create efficient object representations, communication, data access, and computation Avoid mistakes that slow down Objective-C programs and hinder later optimization Fix leaks and other problems with memory and resource management Address I/O issues associated with drives, networking, serialization, and SQLite Code graphics and UIs that don't overwhelm limited iOS device resources Learn what all developers need to know about Swift performance

Node.js in Action - Tim Oxley 2017-08-16

Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous programming, state management, and event-driven programming. And you'll learn to put together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing

and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk, and Nathan Rajlich. Table of contents PART 1 - WELCOME TO NODE Welcome to Node.js Node programming fundamentals What is a Node web application? PART 2 - WEB DEVELOPMENT WITH NODE Front-end build systems Server-side frameworks Connect and Express in depth Web application templating Storing application data Testing Node applications Deploying Node applications and maintaining uptime PART 3 - BEYOND WEB DEVELOPMENT Writing command-line applications Conquering the desktop with Electron

Practical Aurelia - Behzad Abbasi 2018-03-03

This book will introduce you to the tools and fundamentals of modern Aurelia practices. After read you can planning an Aurelia project is something you may have already done, or will be soon attempting.

Digital Personalized Health and Medicine - L.B. Pape-Haugaard 2020-06-17

Digital health and medical informatics have grown in importance in recent years, and have now become central to the provision of effective healthcare around the world. This book presents the proceedings of the 30th Medical Informatics Europe conference (MIE). This edition of the conference, hosted by the European Federation for Medical Informatics (EFMI) since the 1970s, was due to be held in Geneva, Switzerland in April 2020, but as a result of measures to prevent the spread of the Covid19 pandemic, the conference itself had to be cancelled. Nevertheless, because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine, it was decided to publish the submissions accepted in the review process and confirmed by the Scientific Program Committee for publication, and these are published here as planned. The 232 papers are themed under 6 section headings: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; and ethics, legal and societal aspects. A 7th section deals with the Swiss personalized health network, and section 8 includes the 125 posters accepted for the conference. Offering an overview of current trends and developments in digital health and medical informatics, the book provides a valuable information resource for researchers and health practitioners alike.

Practical Node.js - Azat Mardan 2018-08-17

Learn how to build a wide range of scalable real-world web applications using a professional development toolkit. If you already know the basics of Node.js, now is the time to discover how to bring it to production level by leveraging its vast ecosystem of packages. With this book, you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. You already know what Node.js is; now learn what you can do with it and how far you can take it! What You'll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha, Expect and TravisCI Utilize sessions for authentication Implement a third-party OAuth strategy with Everyauth Apply Redis, domains, WebSockets, and clusters Write your own Node.js module, and publish it on NPM Who This Book Is For Web developers who have some familiarity with the basics of Node.js and want to learn how to use it to build apps in a professional environment.

Node.js - Azat Mardan 2019-10-25T00:00:00+02:00

Imparate come creare un'ampia gamma di applicazioni web reali e scalabili usando un toolkit di sviluppo professionale. Se già conoscete le basi di Node.js, ora è giunto il momento per scoprire come portarle a livello di produzione, avvalendovi del vasto ecosistema di package. Grazie a questo libro lavorerete con

un'ampia collezione di standard e framework, e scoprirete come questi elementi possono vivere tutti insieme. Questo volume vi guida dall'installazione di tutti i moduli necessari alla scrittura di applicazioni web full-stack. Sfrutterete la potenza dei framework Express.js e Hapi, oltre al database MongoDB con Mongoskin e Mongoose. Lavorerete con i template engine Pug e Handlebars, i linguaggi Stylus e LESS CSS, le librerie OAuth ed Everyauth, oltre a Socket.IO e Derby, analizzando tutto ciò che serve. Node.js. Guida per lo sviluppatore è interamente aggiornato per ES6/ES2015 e spiega anche come eseguire il deployment su Heroku e AWS, come demonizzare le app e scrivere API REST. Creerete applicazioni full-stack reali e funzionanti, a partire da zero, e scoprirete come scrivere i vostri moduli Node.js, oltre a come pubblicarli su npm.

Smart Computing and Communication - Meikang Qiu 2018-12-08

This book constitutes the refereed proceedings of the Third International Conference on Smart Computing and Communications, SmartCom 2018, held in Tokyo, Japan, in December 2018. The 45 papers presented in this volume were carefully reviewed and selected from 305 submissions. They focus on topics from smart data to smart communications, as well as smart cloud computing to smart security.

Full Stack JavaScript Development With MEAN - Colin J Ihrig 2014-12-24

With modern tools, it is possible to create a production grade, full-stack application using HTML, CSS, and JavaScript alone. The combination of MongoDB, Express, AngularJS, and Node.js has become so popular that it has earned the title MEAN stack -- the subject of this book. This book explores the MEAN stack in detail. We will begin by covering Node.js, as it will lay the groundwork for all of our server-side work. You will learn how to get Node running on your local machine as well as download modules using npm. The key aspects of the Node.js programming model will also be covered. From there, we will move on to MongoDB, where you'll learn how to interact with Mongo from a Node application. You will also learn how to create, retrieve, update, and delete data from a Mongo store. After you have a solid grasp on Node and Mongo, the book will move on to the Express web server. We'll cover the basics of Express applications via topics like routes and middleware. Building on previous chapters, we will cover the integration of Node, Mongo, and Express. Our coverage of the MEAN stack will wrap up with several chapters on AngularJS. These chapters will cover Angular fundamentals like data binding, directives, controllers, routing, and services. In an effort to explore competing technologies, a slight introduction to Ember.js will also be provided. Full stack JavaScript is not fully encompassed by the MEAN stack. There is an entire ecosystem of JavaScript tools to learn about, and this book will introduce a few of them. We will cover task runners Gulp.js and Grunt.js which are extremely useful for automating mundane, repetitive tasks. We'll also cover JSHint, a linting tool used to improve code quality. Linting tools analyze source code and report potential issues - a feature that is especially useful in non-compiled languages like JavaScript.

Research & Innovation Forum 2019 - Anna Visvizi 2019-10-28

This book features research presented and discussed during the Research & Innovation Forum (Rii Forum) 2019. As such, this volume offers a unique insight into emerging topics, issues and developments pertinent to the fields of technology, innovation and education and their social impact. Papers included in this volume apply inter- and multi-disciplinary approaches to query such issues as technology-enhanced teaching and learning, smart cities,, information systems, cognitive computing and social networking. What brings these threads of the discussion together is the question of how advances in computer science - which are otherwise largely incomprehensible to researchers from other fields - can be effectively translated and capitalized on so as to make them beneficial for society as a whole. In this context, Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders, including academics, the think tank sector and decision-makers, can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science. In brief, Rii Forum takes the imperative inherent in the 4th industrial revolution seriously, in that it identifies ways of making technology usable and therefore inclusive.

Accelerating Modernization with Agile Integration - Adeline SE Chun 2020-07-01

The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development that pull away

from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.

Registro Distribuito - Fouad Sabry 2021-11-28

Cos'è il libro mastro distribuito Un libro mastro distribuito è un database condiviso e sincronizzato consensualmente su più siti, istituzioni o aree geografiche, accessibile da più persone. Consente alle transazioni di avere "testimonianze" pubbliche. Il partecipante a ciascun nodo della rete può accedere alle registrazioni condivise su quella rete e può possederne una copia identica. Eventuali modifiche o aggiunte apportate al libro mastro vengono riflesse e copiate a tutti i partecipanti in pochi secondi o minuti. Blockchain utilizza la tecnologia sottostante dei registri distribuiti. Bitcoin sta utilizzando la tecnologia sottostante di Blockchain. Blockchain è un tipo di registro distribuito utilizzato da bitcoin. Blockchain sono le ultime parole d'ordine sul mercato. Bitcoin è fantastico, ma il potenziale della tecnologia sottostante è immenso. Qualcosa che è iniziato come un'evoluzione presto causerà una rivoluzione. Gli investitori stanno incassando enormi quantità perché capiscono che la fortuna di questa ingegnosa tecnologia è molto brillante. Esperti del settore e appassionati di tecnologia producono prodotti basati su blockchain ogni giorno successivo. Quindi, non aspettare e preparati per il settore con questo libro che descriverà in modo approfondito il registro distribuito. Come ne trarrai beneficio (I) Approfondimenti e convalide sui seguenti argomenti: Capitolo 1: Distributed Ledger Capitolo 2: Hyperledger Capitolo 3: Confidential Consortium Framework Capitolo 4: Coerenza finale Capitolo 5: ACID Capitolo 6: Teorema CAP Capitolo 7: Controllo della concorrenza Capitolo 8: Transazioni Jakarta Capitolo 9: NTFS transazionale Capitolo 10: Protocollo di commit in due fasi Capitolo 11: CRUD Capitolo 12: Modello OSI (II) Rispondere alle principali domande pubbliche sul registro distribuito. (III) Esempi del mondo reale per l'utilizzo del registro distribuito in molti campi. (IV) 17 appendici per spiegare, brevemente, 266 tecnologia emergente in ogni settore per avere una comprensione completa a 360 gradi delle tecnologie di contabilità distribuita. A chi è rivolto questo libro Professionisti, studenti universitari e laureati, appassionati, hobbisti e coloro che vogliono andare oltre le conoscenze o le informazioni di base per qualsiasi tipo di registro distribuito.

Web Development with MongoDB and Node - Third Edition - Mithun Satheesh 2017-09-28

Use the two popular web development stacks, Node.js and MongoDB, to build full-featured web applications About This Book* Learn the new ECMAScript along with Node 8 and MongoDB to make your application more effective.* Get the up-to-date information required to launch your first application prototype using the latest versions of Node.js and MongoDB.* A practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as angular4 and hapi Who This Book Is For The book is designed for JavaScript developers of any skill level who want to get up-and-running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only prerequisite for this book. What You Will Learn* Work with Node.js building blocks* Write and configure a web server using Node.js powered by the Express.js framework* Build dynamic HTML pages using the Handlebars template engine* Persist application data using MongoDB and Mongoose ODM* Test your code using automated testing tools such as the Mocha framework* Automate test cases using Gulp* Reduce your web development time by integrating third-party tools for web interaction.* Deploy a development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure* Explore single-page application frameworks to take your web applications to the next level In Detail Node.js builds fast, scalable network applications while MongoDB is the perfect fit as a high-performance, open source NoSQL database

solution. The combination of these two technologies offers high performance and scalability and helps in building fast, scalable network applications. Together they provide the power for manage any form of data as well as speed of delivery. This book will help you to get these two technologies working together to build web applications quickly and easily, with effortless deployment to the cloud. You will also learn about angular 4, which consumes pure JSON APIs from a hapi server. The book begins by setting up your development environment, running you through the steps necessary to get the main application server up-and-running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools to interact with web apps. You will see how to use controllers and view models to generate reusable code that will reduce development time. Toward the end, the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB, Node.js, and some of the most powerful and popular frameworks. Style and approach A practical guide with clear instructions to designing and developing a complete web application from start to finish

Web Development with Node and Express - Ethan Brown 2019-11-13

Build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this updated edition, author Ethan Brown teaches you Express fundamentals by walking you through the development of an example application. This hands-on guide covers everything from server-side rendering to API development suitable for use in single-page apps (SPAs). Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. Frontend and backend engineers familiar with JavaScript will also learn best practices for building multipage and hybrid web apps with Express. Pick up this book and discover new ways to look at web development. Create a templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing Persist data in document databases with MongoDB and relational databases with PostgreSQL Make your resources available to other programs with APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and more Implement a plan for launching and maintaining your app Learn critical debugging skills

Blockchain Development with Hyperledger - Salman A. Baset 2019-03-26

Learn quick and effective techniques for developing blockchain-based distributed ledgers with ease Key Features Discover why blockchain is a game changer in the technology landscape Set up blockchain networks using Hyperledger Fabric Write smart contracts at speed with Hyperledger Composer Book Description Blockchain and Hyperledger are open source technologies that power the development of decentralized applications. This Learning Path is your helpful reference for exploring and building blockchain networks using Ethereum, Hyperledger Fabric, and Hyperledger Composer. Blockchain Development with Hyperledger will start off by giving you an overview of blockchain and demonstrating how you can set up an Ethereum development environment for developing, packaging, building, and testing campaign-decentralized applications. You'll then explore the de facto language Solidity, which you can use to develop decentralized applications in Ethereum. Following this, you'll be able to configure Hyperledger Fabric and use it to build private blockchain networks and applications that connect to them. Toward the later chapters, you'll learn how to design and launch a network, and even implement smart contracts in chain code. By the end of this Learning Path, you'll be able to build and deploy your own decentralized applications by addressing the key pain points encountered in the blockchain life cycle. This Learning Path includes content from the following Packt products: Blockchain Quick Start Guide by Xun (Brian) Wu and Weimin Sun Hands-On Blockchain with Hyperledger by Nitin Gaur et al. What you will learn Understand why decentralized applications are necessary Develop and test a decentralized application with Hyperledger Fabric and Hyperledger Composer Write and test a smart contract using Solidity Design transaction models and chain code with Golang Deploy the Composer REpresentational State Transfer (REST) Gateway to access Composer transactions Maintain, monitor, and manage your blockchain solutions Who this book is for This Learning Path is designed for blockchain developers who want to build decentralized applications and smart contracts from scratch using Hyperledger. Basic familiarity with or

exposure to any programming language will be useful to get started with this course.

Node.js - Rick L. 2016-06-13

Node.js JavaScript based framework. Easy Guide Book This book is an exploration of the Node.js framework for JavaScript. The first part is an overview of what the framework is and how it is used. The kinds of applications which can be used for development have also been explained. Module dependencies in Node are then discussed. You will learn how to manage these for your Node application. The functions "Require" and "export" which are very useful in Node are explored. You will learn how to use these in your app. The use of promises in Node is also examined.. You will learn how to use promises so as to control the process of asynchronous flow in Node. Callbacks, which are very useful in Node are also explained. The process of management of the callback hell in Node apps, as well as promise methods are then covered in this book. In Node, one can execute multiple instances in a single process. After reading this book, you will be in a position to do this. You will also be guided on how to monitor the event loops. The following topics are discussed in this book: A Brief Overview Management of Module Dependencies Require and Exports Asynchronous Flow Control using Promise Management of Node.js callback Hell Promise Methods Execution of Multiple Instances in a Single Process Loop Back Node.js Framework Event Loop Monitoring Download your copy of " Node.js" by scrolling up and clicking "Buy Now With 1-Click" button.

Trust Models for Next-Generation Blockchain Ecosystems - Muhammad Habib ur Rehman

Node.js Web Development - David Herron 2016-06-27

Create real-time server-side applications with this practical, step-by-step guide About This Book Learn about server-side JavaScript with Node.js and Node modules through the most up-to-date book on Node.js web development Understand website development both with and without the Connect/Express web application framework Develop both HTTP server and client applications Who This Book Is For This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development. What You Will Learn Install and use Node.js for both development and deployment Use the Express application framework Configure Bootstrap for mobile-first theming Use data storage engines such as MySQL, SQLITE3, and MongoDB Understand user authentication methods, including OAuth, with third-party services Deploy Node.js to live servers, including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node.js is a server-side JavaScript platform using an event driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. Node.js Web Development shows JavaScript is not just for browser-side applications. It can be used for server-side web application development, real-time applications, microservices, and much more. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more. Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js.

Pivotal Certified Spring Enterprise Integration Specialist Exam - Lubos Krnac 2015-11-13

Exam topics covered include tasks and scheduling, remoting, the Spring Web Services framework, RESTful services with Spring MVC, the Spring JMS module, JMS and JTA transactions with Spring, batch processing with Spring Batch and the Spring Integration framework. Prepare with confidence for the Pivotal Enterprise Integration with Spring Exam. One of the important aspects of this book is a focus on new and modern abstractions provided by Spring. Therefore most of the features are shown with Java annotations alongside established XML configurations. Most of the examples in the book are also based on the Spring Boot framework. Spring Boot adoption is exponential because of its capability to significantly simplify Spring configuration using sensible opinionated defaults. But Spring Boot is not the target of the exam, therefore all the features are also covered with plain Spring configuration examples. How to use Spring to

create concurrent applications and schedule tasks How to do remoting to implement client-server applications How to work with Spring Web services to create loosely coupled Web services and clients How to use Spring MVC to create RESTful web services and clients How to integrate JMS for asynchronous messaging-based communication How to use local JMS transactions with Spring How to configure global JTA transactions with Spring How to use Spring Integration to create event-driven pipes-and-filters architectures and integrate with external applications How to use Spring Batch for managed, scalable batch processing that is based on both custom and built-in processing components

Practical hapi - Kanika Sud 2020-06-25

Understand the core concepts of hapi and learn to build RESTful APIs that are quick, useful, and productive. Created by the mobile team at Walmart Labs, hapi is a light Node.js framework that is perfect for building API servers, websites, and HTTP proxy applications. With this quick guide, you'll learn the basics of hapi and use those skills to build an application and a REST API with MySQL. You'll then wrap up with a Capstone project of industry relevance, understanding solution design, and how hapi fits into industry relevant projects for data driven apps. Used by companies such as PayPal and Mozilla, hapi is a key framework for anyone serious about enterprise web development. Practical hapi will ensure you focus your time on critical project tasks instead of building infrastructure. What You'll Learn Utilize the power of RESTful APIs and Node.js Build your first hapi application based on its core concepts Work with promises and asynchronous programming effectively Use Sequelize for database connectivity Who This Book Is For Anyone with basic knowledge of JavaScript or Node.js who wants to learn to work with hapi. A primer for the relevant Node.js and JavaScript is provided so those with general programming experience can also use this book.

Konzept und Prototyp für eine Software zur Vernetzung von Sensoren und Aktoren - Daniel Budick 2014-09-30

In dieser Arbeit wurde die Konzeption für eine Software zur Vernetzung von Hardwarebauteilen beschrieben und die Dokumentation zum Prototyp der Selbigen dargelegt. Der Name der Software ist Ventanilla. Wesentliche Eigenschaften der Software sollen sein: Einfachheit, Anwendbarkeit, Skalierbarkeit, Ausfallsicherheit und Erweiterbarkeit. Teil des Prototyps ist eine Android-App und ein Server geschrieben in Node.js.

Blockchain Quick Start Guide - Xun (Brian) Wu 2018-12-27

Learn quick and effective techniques to get up and running with building blockchain including Ethereum and Hyperledger Fabric. Key Features Understand the key concepts of decentralized applications and consensus algorithms Learn key concepts of Ethereum and Solidity programming Practical guide to get started with build efficient Blockchain applications with Ethereum and Hyperledger Book Description Blockchain is a technology that powers the development of decentralized applications. This technology allows the construction of a network with no single control that enables participants to make contributions to and receive benefits from the network directly. This book will give you a thorough overview of blockchain and explain how a blockchain works. You will begin by going through various blockchain consensus mechanisms and cryptographic hash functions. You will then learn the fundamentals of programming in Solidity - the defacto language for developing decentralize, applications in Ethereum. After that, you will set up an Ethereum development environment and develop, package, build, and test campaign-decentralized applications. The book also shows you how to set up Hyperledger composer tools, analyze business scenarios, design business models, and write a chain code. Finally, you will get a glimpse of how blockchain is actually used in different real-world domains. By the end of this guide, you will be comfortable working with basic blockchain frameworks, and develop secure, decentralized applications in a hassle-free manner. What you will learn Understand how blockchain hashing works Write and test a smart contract using Solidity Develop and test a decentralized application Build and test your application using Hyperledger Fabric Implement business network using Hyperledger Composer Test and interact with business network applications Who this book is for The book is for developers, analysts, or anyone looking to learn about Blockchain in a quick and easy manner.

Pro Express.js - Azat Mardan 2014-12-26

Pro Express.js is for the reader who wants to quickly get up-to-speed with Express.js, the flexible Node.js

framework. Author Azat Mardan clearly explains how to start developing with Express.js with a basic 'Hello World', and then delves into a deep API reference, before looking at common and abstract development problems. Lastly, you will learn how to build a series of real-world apps in order to cement your knowledge. In order to get the best from this book, you will be familiar with Node.js scripts and able to install packages using npm. In the deep API reference, each aspect of the Express.js API is explained clearly with a simple exercise to demonstrate its usage. This includes configuration, settings and environments; different middleware and its uses; templating engines; extracting parameters and routing; request and response; error handling; and running an app. In the next part you'll delve into abstraction, streams, authentication, multithreading, Socket.io, security, and more complex modules. You will also learn about smaller frameworks built using Express.js, such as Sails.js, and Derby. Finally you'll build real-world apps including a REST API, Todo App, and Instagram gallery. Express.js is used by a range of well-known companies such as MySpace and Storify, and it's becoming more and more likely that it'll be a required skill for new developers. With this book you can skip learning via complicated documentation, and get the information from a developer who's been using Express.js for long enough to explain things well. Add Pro Express.js to your library today.

Blockchain for Business with Hyperledger Fabric - Shah Nakul 2019-09-20

Step-by-step guide to understand the business implementation of Hyperledger Fabric Key features Learn the basics of blockchain and Distributed Ledger Technology from a business and enterprise perspective Understand the advantages of Hyperledger Fabric and get acquainted with its architecture and tools used Acquire skills to create, deploy and interact with Chaincode in Node.js Learn to set up a new Hyperledger Fabric network Demystify Chaincode, in Fabric, for developers and operators Develop knowledge to invoke Chaincode from Fabric SDK and create APIs Get acquainted with the production environment for Fabric business networks Description In 2016, enterprise "e;blockchain"e; was a new concept. There were very few players in the private permissioned blockchain space. The advent of Hyperledger Fabric has since brought its tech in front of the likes of multi-national companies across various sectors like banking, insurance, retail, and more. Corporations and startups, across the globe, have started moving towards Hyperledger Fabric to find new use cases to support business requirements efficiently. As a result, relevant technical expertise and knowledge is required to build and support solutions on Hyperledger Fabric. This book aims to equip you with enough knowledge of enterprise blockchain platforms in conjunction with skills to use Fabric in order to succeed in the role of a Blockchain developer or Subject Matter Expert. The book starts with a brief introduction to the world of blockchain. The book will cover all aspects of fabric ranging from network setup, to use case deployment and testing. Several examples have been covered in this book which will provide you a hands-on understanding of the subject. You will also learn to use the basic functions, libraries and packages required in a Fabric business network deployment. What will you learn This book will help the reader learn techniques for developing enterprise applications using Hyperledger Fabric. It will also help understand why blockchain is being regarded as a game changing technology within the business world. Reader will learn to deploy Fabric based business networks and chaincodes, and will come across case studies to put their knowledge to practice and solve real-life business problems using Hyperledger Fabric. Who this book is for The book is intended for anyone looking for a career in blockchain, all aspiring Hyperledger Fabric SMEs who want to learn the most powerful innovation of the current time or working professionals who want to switch their career to blockchain by using Hyperledger Fabric - one of the most commonly used business platforms for blockchain. While no prior knowledge of Blockchain or Fabric is assumed, it will be helpful to have some programming experience. Table of contents 1. Blockchain and Decentralization 2. Introduction to Hyperledger and Composer 3. Basics of Hyperledger Fabric 4. Frameworks, Network Topologies and Modelling 5. Chaincode in Hyperledger Fabric 6. Fabric SDK: Interaction with Fabric Network 7. Fabric SDK: Building End-to-End Application with Fabric Network 8. Fabric in Production About the author Nakul Shah is the Founder and Director of Sate Development - India's leading Blockchain Company. He is a regular speaker at conferences across the globe, on topics like Blockchain, Hyperledger and Distributed Ledger Technology. As a longtime creative thought leader in financial markets, technology and innovation, he has worked with startups and multinationals across the world. Nakul has multiple years of experience in research, development and deployment of solutions using

Blockchain Technology. Besides creating enterprise solutions, he also provides training, consultancy and development services, helping clients de-mystify the technology and understand how organizations can leverage its key features. Nakul has conducted lectures for banks, universities and governments, on various topics covering platforms and use cases of blockchain. Nakul has played a significant role in the adoption and application of technology. He started his career at State Street Corporation in Boston, which is one of the biggest and oldest providers of mutual fund, pension processing and asset custody services. He used advanced statistical and technical tools in the field of socially responsible investment. He also served as a Product Specialist for the wealth management team at Charles River Development. While executing independent consulting assignments, he has advised a leading sustainability firm that helps Fortune 500 companies. Nakul holds a Master's degree in Financial Engineering from The University of Michigan Ann Arbor, USA. His LinkedIn Profile: [linkedin.com/in/nakul-s-shah](https://www.linkedin.com/in/nakul-s-shah)

Distributed Ledger - Fouad Sabry 2021-11-26

What Is Distributed Ledger A distributed ledger is a database that is consensually shared and synchronized across multiple sites, institutions, or geographies, accessible by multiple people. It allows transactions to have public "witnesses." The participant at each node of the network can access the recordings shared across that network and can own an identical copy of it. Any changes, or additions, made to the ledger, are reflected, and copied to all participants in a matter of seconds or minutes. Blockchain is using the underlying technology of distributed ledgers. Bitcoin is using the underlying technology of Blockchain. Blockchain is a type of distributed ledger used by bitcoin. Blockchain is the latest buzz words in the market. Bitcoin is great, but the potential of the underlying technology is immense. Something that started as an evolution is soon going to cause a revolution. Investors are cashing in huge amount because they understand the fortune of this ingenious technology is very bright. Industry experts and tech enthusiasts are producing blockchain-based products every next day. So, wait not, and get industry-ready with this book which will describe distributed ledger in depth. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Distributed Ledger Chapter 2: Hyperledger Chapter 3: Confidential Consortium Framework Chapter 4: Eventual Consistency Chapter 5: ACID Chapter 6: CAP Theorem Chapter 7: Concurrency Control Chapter 8: Jakarta Transactions Chapter 9: Transactional NTFS Chapter 10: Two Phase Commit Protocol Chapter 11: CRUD Chapter 12: OSI Model (II) Answering the public top questions about distributed ledger. (III) Real world examples for the usage of distributed ledger in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technology in each industry to have 360-degree full understanding of distributed ledger' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of distributed ledger.

Isomorphic Web Applications - Elyse Gordon 2018-05-24

Summary Isomorphic Web Applications teaches you to build production-quality web apps using isomorphic architecture. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Build secure web apps that perform beautifully with high, low, or no bandwidth. Isomorphic web apps employ a pattern that exploits the full stack, storing data locally and minimizing server hits. They render flawlessly, maximize SEO, and offer opportunities to share code and libraries between client and server. About the Book Isomorphic Web Applications teaches you to build production-quality web apps using isomorphic architecture. You'll learn to create and render views for both server and browser, optimize local storage, streamline server interactions, and handle data serialization. Designed for working developers, this book offers examples in relevant frameworks like React, Redux, Angular, Ember, and webpack. You'll also explore unique debugging and testing techniques and master specific SEO skills. What's Inside Controlling browser and server user sessions Combining server-rendered and SPA architectures Building best-practice React applications Debugging and testing About the Reader To benefit from this book, readers need to know JavaScript, HTML5, and a framework of their choice, including React and Angular. About the Author Elyse Kolker Gordon runs the growth engineering team at Strava. Previously, she was director of web engineering at Vevo, where she regularly solved challenges with isomorphic apps. Table of Contents PART 1 - FIRST

STEPS Introduction to isomorphic web application architecture A sample isomorphic app PART 2 - ISOMORPHIC APP BASICS React overview Applying React Tools: webpack and Babel Redux PART 3 - ISOMORPHIC ARCHITECTURE Building the server Isomorphic view rendering Testing and debugging Handling server/browser differences 203 Optimizing for production PART 4 - APPLYING ISOMORPHIC ARCHITECTURE WITH OTHER TOOLS Other frameworks: implementing isomorphic without React Where to go from here

Node.js Design Patterns - Mario Casciaro 2020-07-29

Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Key Features Learn how to create solid server-side applications by leveraging the full power of Node.js 14 Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node.js applications Book Description In this book, we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and showing you how to use them at their full capacity. Following streams is an analysis of different creational, structural, and behavioral design patterns that take full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life examples leveraging technologies such as LevelDB, Redis, RabbitMQ, ZeroMQ, and many others. They will be used to demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learn Become comfortable with writing asynchronous code by leveraging callbacks, promises, and the async/await syntax Leverage Node.js streams to create data-driven asynchronous processing pipelines Implement well-known software design patterns to create production grade applications Share code between Node.js and the browser and take advantage of full-stack JavaScript Build and scale microservices and distributed systems powered by Node.js Use Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDB Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node.js and now want to get the most out of these technologies in terms of productivity, design quality, and scalability. Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

Getting Started with hapi.js - John Brett 2016-04-12

Build well-structured, testable applications and APIs using hapi.js About This Book With the help of this book, you will improve your productivity as a developer and that of your team by focusing on business logic utilizing the structure that Hapi.js provides You will be introduced to a real-world problem and we'll demonstrate how to use the tools Hapi provides to resolve it This is the only book with a learn-by-example approach Who This Book Is For If you are a JavaScript developer with or without Node.js experience and would like to learn to build applications, APIs, and web servers with the best-in-class framework hapi.js, this book is perfect for you. What You Will Learn Increase your productivity by taking advantage of the out-of-the-box features hapi.js provides Build secure API servers Create websites and applications using your favorite templating language Leverage hapi.js plugins to better structure your codebase Simplify your security workflows with the built-in authentication and authorization functionality of hapi.js Ensure application reliability with testing and code coverage Reduce code complexity using reusable validation logic with joi Gather insight into your application performance via logging Start the journey to building robust production-ready applications In Detail This book will introduce hapi.js and walk you through the creation of your first working application using the out-of-the-box features hapi.js provides. Packed with real-world problems and examples, this book introduces some of the basic concepts of hapi.js and Node.js

and takes you through the typical journey you'll face when developing an application. Starting with easier concepts such as routing requests, building APIs serving JSON, using templates to build websites and applications, and connecting databases, we then move on to more complex problems such as authentication, model validation, caching, and techniques for structuring your codebase to scale gracefully. You will also develop skills to ensure your application's reliability through testing, code coverage, and logging. By the end of this book, you'll be equipped with all the skills you need to build your first fully featured application. This book will be invaluable if you are investigating Node.js frameworks or planning on using hapi.js in your next project. Style and approach This book takes a step-by-step approach to building an application or web server using hapi.js through examples.

Learning Node.js for Mobile Application Development - Stefan Buttigieg 2015-10-30

Make use of Node.js to learn the development of a simple yet scalable cross-platform mobile application About This Book Use Node.js to satisfy the core backend requirements of modern apps, including user management, security, data access, and real-time data communication Build practical real-world mobile applications, which will give you the necessary knowledge to build your very own mobile solutions Step-by-step development of projects using Ionic Framework as the frontend and Node.js for the backend supported by a MongoDB database Who This Book Is For This book is intended for web developers of all levels of expertise who want to deep dive into cross-platform mobile application development without going through the pains of understanding the languages and native frameworks that form an integral part of developing for different mobile platforms. This book is also for you if you are a developer who wants to capitalize on the MobileFirst strategy and so are going to use JavaScript for your complete stack. What You Will Learn Develop an API from scratch Set up a MongoDB Database as part of your mobile application backend Deploy a cross-platform mobile application from the command line Incorporate features within your mobile application that use native phone features such as a gyroscope, GPS, and accelerometer Implement mobile applications that use web-enabled APIs Build a mobile application with real-time chat messaging features Develop a secure mobile application that is capable of functioning with real-time data In Detail Node.js is a massively popular JavaScript library that lets you use JavaScript to easily program scalable network applications and web services. People approaching Node.js for the first time are often attracted by its efficiency, scalability, and the fact that it's based on JavaScript, the language of the Web, which means that developers can use the same language to write backend code. Also, it's increasingly being seen as a "modern" replacement for PHP in web development, which relies on fast-paced data exchange. The growing community and the large amount of available modules makes Node.js one of the most attractive development environments. This book takes a step-wise and incremental approach toward developing cross-platform mobile technologies using existing web technologies. This will allow you to truly understand and become proficient in developing cross-platform mobile applications with Node.js, Ionic Framework, and MongoDB. The book starts off by introducing all the necessary requirements and knowledge to build a mobile application with a companion web service. It covers the ability to create an API from scratch and implement a comprehensive user database that will give you the opportunity to offer a mobile application with a personalized experience. Midway through the book, you will learn the basic processes to create a successful mobile application. You will also gain higher-level knowledge, allowing you to develop a functional and secure mobile application to ensure a seamless user experience for end users. Finally, the book ends with more advanced projects, which will bring together all the knowledge and expertise developed in the previous chapters to create a practical and functional mobile-application that has useful real-world features. Style and approach This book is an easy-to-follow guide that takes a step-wise approach in giving expertise and knowledge to help you truly understand what is needed to create a memorable user experience for end users. Each topic is placed in the context of the bigger picture, that is, to create cross-platform mobile applications using existing technologies.

Blockchain and Deep Learning - Khaled R. Ahmed 2022-03-25

This book introduces to blockchain and deep learning and explores and illustrates the current and new trends that integrate them. The pace and speeds for connectivity are certain on the ascend. Blockchain and deep learning are twin technologies that are integral to integrity and relevance of network contents. Since they are data-driven technologies, rapidly growing interests exist to incorporate them in efficient and

secure data sharing and analysis applications. Blockchain and deep learning are sentinel contemporary research technologies. This book provides a comprehensive reference for blockchain and deep learning by covering all important topics. It identifies the bedrock principles and forward projecting methodologies that illuminate the trajectory of developments for the decades ahead.

An Architectural and Practical Guide to IBM Hybrid Integration Platform - Carsten Börner 2017-01-12

In order to remain competitive in today's world, companies need to be able to integrate internally and externally by connecting sensors, customers and partners with the information in their systems of record. In short, they need to integrate with everything. This IBM® Redbooks® publication describes how IBM Application Integration Suite and IBM Messaging portfolio can be used to satisfy the needs of core hybrid integration use cases, accelerating companies in their digital transformation journey. All concepts are explained within the context of these use cases: Joining the API economy Improving productivity Refactoring for innovation The target audience for this book is cloud and integration architects and specialists who are implementing hybrid integration solutions.

Get Programming with Node.js - Jonathan Wexler 2019-02-11

Summary Get Programming with Node.js teaches you to build web servers using JavaScript and Node. In this engaging tutorial, you'll work through eight complete projects, from writing the code for your first web server to adding live chat to a web app. Your hands will stay on the keyboard as you explore the most important aspects of the Node development process, including security, database management, authenticating user accounts, and deploying to production. You'll especially appreciate the easy-to-follow discussions, illuminating diagrams, and carefully explained code! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Node.js delivers the speed and reliability you need for ecommerce, social media, and gaming applications. It comes with thousands of prebuilt packages to help you get started immediately. If you want to use JavaScript on the server, Node.js is your choice. What's inside New features from ES2015 and later Writing asynchronous code Creating data models Debugging JavaScript modules About the Reader Written for front-end web developers with intermediate JavaScript skills. Table of Contents GETTING SET UP Lesson 0 - Setting up Node.js and the JavaScript engine Lesson 1 - Configuring your environment Lesson 2 - Running a Node.js application UNIT 1 - GETTING STARTED WITH NODE.JS Lesson 3 - Creating a Node.js module Lesson 4 - Building a simple web server in Node.js Lesson 5 - Handling incoming data Lesson 6 - Writing better routes and serving external files Lesson 7 - Capstone: Creating your first web application UNIT 2 - EASIER WEB DEVELOPMENT WITH EXPRESS.JS Lesson 8 - Setting up an app with Express.js Lesson 9 - Routing in Express.js Lesson 10 - Connecting views with templates Lesson 11 - Configurations and error handling Lesson 12 - Capstone: Enhancing the Confetti Cuisine site with Express.js UNIT 3 - CONNECTING TO A DATABASE Lesson 13 - Setting up a MongoDB database Lesson 14 - Building models with Mongoose Lesson 15 - Connecting controllers and models Using promises with Mongoose Lesson 16 - Capstone: Saving user subscriptions UNIT 4 - BUILDING A USER MODEL Lesson 17 - Improving your data models Lesson 18 - Building the user model Lesson 19 - Creating and reading your models Lesson 20 - Updating and deleting your models Lesson 21 - Capstone: Adding CRUD models to Confetti Cuisine Creating controllers UNIT 5 - AUTHENTICATING USER ACCOUNTS Lesson 22 - Adding sessions and flash messages Lesson 23 -

Building a user login and hashing passwords Lesson 24 - Adding user authentication Lesson 25 - Capstone: Adding user authentication to Confetti Cuisine UNIT 6 - BUILDING AN API Lesson 26 - Adding an API to your application Lesson 27 - Accessing your API from your application Lesson 28 - Adding API security Lesson 29 - Capstone: Implementing an API UNIT 7 - ADDING CHAT FUNCTIONALITY Lesson 30 - Working with Socket.io Lesson 31 - Saving chat messages Lesson 32 - Adding a chat notification indicator UNIT 8 - DEPLOYING AND MANAGING CODE IN PRODUCTION Lesson 33 - Capstone: Adding a chat feature to Confetti Cuisine Lesson 34 - Deploying your application Lesson 35 - Managing in production Lesson 36 - Testing your application Lesson 37 - Capstone: Deploying Confetti Cuisine [Web Development with Node and Express](#) - Ethan Brown 2014-07

Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data Dive into request and response objects, middleware, and URL routing Simulate a production environment for testing and development Focus on persistence with document databases, particularly MongoDB Make your resources available to other programs with RESTful APIs Build secure apps with authentication, authorization, and HTTPS Integrate with social media, geolocation, and other third-party services Implement a plan for launching and maintaining your app Learn critical debugging skills This book covers Express 4.0.

[Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services](#) - Jesse Aulsebrook 2016-02-18

The event-centric hybrid cloud integration revolves around applications running based on events or messages. The new event-centric approach to hybrid cloud aims to simplify the task of managing these messages while increasing the overall reliability of the system. Event-centric applications work well in the cloud due to the varying intensity and frequency of events. These fluctuations fit well into a cloud infrastructure that can dynamically scale to fit those needs. An event-centric approach cuts down on communication overhead for an application, thus helping to speed up the development process. IBM® Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix® that allows businesses to create hybrid clouds by connecting their Bluemix environment to on-premises systems at the application programming interface (API), data, or event level. In November 2015, the IBM International Technical Support Organization (ITSO) IBM Redbooks® team published a Redbooks publication that covers hybrid cloud scenarios with Bluemix for API and data integrations, *Hybrid Cloud Data and API Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services*, SG24-8277, and can be found at the following website: <http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg248277.html?Open> *Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services*, SG24-8281 is a companion book to SG24-8277 and focuses on event-centric hybrid cloud integrations with Bluemix.