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# Building Scalable Apps with Redis and Node.js

Develop customized, scalable web apps through the integration  
of powerful Node.js frameworks

Joshua Johanan

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# By Joshua Johanan Building Scalable Apps With Redis And Nodejs Paperback

**Valentin Bojinov, David Herron, Diogo  
Resende**



## **By Joshua Johanan Building Scalable Apps With Redis And Nodejs Paperback:**

Building Scalable Apps with Redis and Node.js Joshua Johanan, 2014-09-25 If the phrase scalability sounds alien to you then this is an ideal book for you You will not need much Node js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework You will be building scalable Node js applications in no time Knowledge of JavaScript is required **Node.js By Example** Krasimir Tsonev, 2015-05-25 If you are a JavaScript developer with no experience with Node js or server side web development this book is for you It will lead you through creating a fairly complex social network You will learn how to work with a database and create real time communication channels

**Socket.IO Cookbook** Tyson Cadenhead, 2015-10-15 Over 40 recipes to help you create real time JavaScript applications using the robust Socket IO framework About This Book Create secure WebSocket connections and real time mobile applications using Socket IO Devise efficient messaging systems between the server side and the client side A step by step implementation guide to help you create elements of Socket IO application Who This Book Is For If you have some knowledge of JavaScript and Node js and want to create awe inspiring application experiences using real time communication then this book is for you Developers with knowledge of other scripting languages should also be able to easily follow along What You Will Learn Build rich and interactive real time dashboards using Socket IO to pipe in data as it becomes available Design chat and multiple person interfaces that leverage Socket IO for communication Segment conversations to rooms and namespaces so that every socket doesn't have to receive every message Secure your data by implementing various authentication techniques locking down the HTTP referrer and using secure WebSockets Load balance across multiple server side nodes and keep your WebSockets in sync using Redis RabbitMQ or Memcached Stream binary data such as audio and video in real time over a Socket IO connection Create real time experiences outside of the browser by integrating Socket IO with hybrid mobile applications In Detail Socket IO is a JavaScript library that provides you with the ability to implement real time analytics binary streaming instant messaging and document collaboration It has two parts a client side library that runs in the browser and a server side library for node js Socket IO is event driven and primarily uses the WebSocket protocol that allows us to emit data bi directionally from the server and the client Socket IO This book is a complete resource covering topics from WebSocket security to scaling the server side of a Socket IO application and everything in between This book will provide real world examples of how secure bi directional full duplex connections that can be created using Socket IO for different environments It will also explain how the connection vulnerabilities can be resolved for large numbers of users and huge amounts of data messages By the end of the book you will be a competent Socket IO developer With the help of the examples and real world solutions you will learn to create fast scalable and dynamic real time apps by creating efficient messaging systems between the server side and the client side using Socket IO Style and approach This book is written in a cookbook style format and provides practical immediately usable task based recipes that show you how to create the

elements of a Socket IO application      *Web Developer's Reference Guide* Joshua Johanan,Talha Khan,Ricardo Zea,2016-03-28 A one stop guide to the essentials of web development including popular frameworks such as jQuery Bootstrap AngularJS and Node js About This Book Understand the essential elements of HTML CSS and JavaScript including how and when to use them Walk through three of the best and most popular web development frameworks jQuery Bootstrap and AngularJS References for any function you will need in your day to day web development Who This Book Is For This book is perfect for beginners but more advanced web developers will also benefit Laid out so you can refer to as much or as little as you need to with this book you can exhaustively explore essential concepts for modern web developers What You Will Learn Explore detailed explanations of all the major HTML elements and attributes illustrated with examples Take a deep dive into CSS properties and functions and master their usage Find clear concise descriptions of JavaScript syntax and expressions Recognize various JavaScript design patterns and learn the basics of JavaScript object orientated programming Implement the latest ECMAScript 6 for client side scripting in your web applications Discover new ways to develop your website s front end quickly and easily using Bootstrap Write JavaScript extensibly using jQuery JavaScript s feature rich library Delve into the key Node js modules used in JavaScript server side programming Access AngularJS s important modules controllers directives and services quickly In Detail This comprehensive reference guide takes you through each topic in web development and highlights the most popular and important elements of each area Starting with HTML you will learn key elements and attributes and how they relate to each other Next you will explore CSS pseudo classes and pseudo elements followed by CSS properties and functions This will introduce you to many powerful and new selectors You will then move on to JavaScript This section will not just introduce functions but will provide you with an entire reference for the language and paradigms You will discover more about three of the most popular frameworks today Bootstrap which builds on CSS jQuery which builds on JavaScript and AngularJS which also builds on JavaScript Finally you will take a walk through Node js which is a server side framework that allows you to write programs in JavaScript Style and approach This book is an easy to follow comprehensive reference guide Each topic function or element is listed methodically along with parameters return values and descriptions Examples are also included to help you put the concepts to use quickly in the real world

*Learning Redis* Vinoo Das,2015-06-26 This book will introduce Redis and help you understand its various facets Starting with an introduction to NoSQL you will learn how to install Redis and how to classify and work with data structures By working with real world scenarios pertaining to using Redis you will discover sharding and indexing techniques along with how to improve scalability and performance through persistent strategies and data migration techniques With the help of multiple examples you will learn to design web and business applications You will also learn how to configure Redis for setting up clusters and tuning it for performance At the end of this book you will find essential tips on backup and recovery strategies for the Redis environment      **Web Developers Reference Guide** Joshua Johanan,Talha Khan,Ricardo

Zea,2016-03-21 A one stop guide to the essentials of web development including popular frameworks such as jQuery Bootstrap AngularJS and Node js About This Book Understand the essential elements of HTML CSS and JavaScript including how and when to use them Walk through three of the best and most popular web development frameworks jQuery Bootstrap and AngularJS References for any function you will need in your day to day web development Who This Book Is For This book is perfect for beginners but more advanced web developers will also benefit Laid out so you can refer to as much or as little as you need to with this book you can exhaustively explore essential concepts for modern web developers What You Will Learn Explore detailed explanations of all the major HTML elements and attributes illustrated with examples Take a deep dive into CSS properties and functions and master their usage Find clear concise descriptions of JavaScript syntax and expressions Recognize various JavaScript design patterns and learn the basics of JavaScript object orientated programming Implement the latest ECMAScript 6 for client side scripting in your web applications Discover new ways to develop your website s front end quickly and easily using Bootstrap Write JavaScript extensibly using jQuery JavaScript s feature rich library Delve into the key Node js modules used in JavaScript server side programming Access AngularJS s important modules controllers directives and services quickly In Detail This comprehensive reference guide takes you through each topic in web development and highlights the most popular and important elements of each area Starting with HTML you will learn key elements and attributes and how they relate to each other Next you will explore CSS pseudo classes and pseudo elements followed by CSS properties and functions This will introduce you to many powerful and new selectors You will then move on to JavaScript This section will not just introduce functions but will provide you with an entire reference for the language and paradigms You will discover more about three of the most popular frameworks today Bootstrap which builds on CSS jQuery which builds on JavaScript and AngularJS which also builds on JavaScript Finally you will take a walk through Node js which is a server side framework that allows you to write programs in JavaScript Style and approach This book is an easy to follow comprehensive reference guide Each topic function or element is listed methodically along with parameters return values and descriptions Examples are also included to help you put the concepts to use quickly in the real world

The Complete Guide to Node Joshua Johanan,2016 Learn everything you need to about Node js About This Video Understand how modules work in Node js Learn asynchronous programming Learn Node js paradigms In Detail We will be covering how to use Node js to build websites This course will focus primarily on Express as the framework that the website will be built in In addition to Express we will cover using Redis and Socket io to make more robust and dynamic sites Many courses only focus on one of these but this course will cover all of them By the end of this course the reader will be able to build applications using Express Redis and Socket io Express helps by making full featured web applications easy if you know how Redis opens doors by making data quick and easy to fetch Many sites have used Redis to make difficult data problems easy Lastly Socket io makes two way communication between the browser and web application easy If you have every needed

to build something that was real time than Socket io is what you want to use      **Build Complex Express Sites with Redis and Socket.io** Joshua Johanan,2016 Unity is a cross platform exciting and popular engine in the game industry This video course shows you how to use Node js to build websites and focuses primarily on Express as the framework that the website will be built in In addition to Express we cover the use of Redis and Socket io to make more robust and dynamic sites Many courses only focus on one of these but this course covers all of them By the end of this course you will be able to build applications using Express Redis and Socket io Express helps by making full featured web applications easy if you know how Redis opens doors by making data quick and easy to fetch Many sites have used Redis to make difficult data problems easy Lastly Socket io makes two way communication between the browser and web application easy If you have ever needed to build something that was real time then Socket io is what you want to use Resource description page      [Building Scalable Web Apps with Node.js and Express: Design and Develop a Robust, Scalable, High-Performance Web Application Using Node.js, Express.js, TypeScript, and Redis](#) Ravi Kumar,Yamini Panchal,2024-06-24 Easy API Design Using Express js and Node js TypeScript Key Features Step by step instructions using TypeScript for efficient backend development on Node js enhancing code quality and maintainability Practical insights using Redis to implement efficient API caching methods optimizing performance and scalability Provides practical examples of API testing using Mocha and Chai ensuring robustness and reliability of the developed APIs Book DescriptionEmbark on a journey to become an expert in backend web development with this essential guide using Node js v20 Express js Redis and TypeScript The book covers foundational to advanced topics through one comprehensive example a project management system It ensures learning and application of skills in API caching with Redis API testing using Mocha and Chai and deployment on AWS This approach simplifies complex concepts and provides a practical learning trajectory With expert tips and best practices you ll create user friendly features like sign ups and project trackers Plus you ll learn how to make your apps faster with caching and add cool features like notifications Finally you ll ace testing and deploying your apps like an expert What you will learn Explore TypeScript s power and versatility for developing backend using Node and Express Learn effective strategies for planning and structuring your application to ensure scalability and maintainability Dive deep into building REST APIs for user management project handling and task tracking Explore the implementation of API caching to boost performance and efficiency Develop a notification module to enrich user interaction and experience within your application Master the art of thoroughly testing your APIs using industry standard tools and methodologies Acquire skills and best practices for deploying your application ensuring smooth operation in production environments Table of Contents1 Introduction to Node js 2 Introduction to TypeScript 3 Overview of Express js 4 Planning the App 5 REST API for User Module 6 REST API for Project and Task Modules 7 API Caching 8 Notification Module 9 Testing API 10 Building and Deploying Application 11 The Journey Ahead Index      [Practical Node.js](#) Azat Mardan,2014-07-17 Practical Node js is your step by step guide to learning how to build a

wide range of scalable real world web applications using a professional development toolkit Node.js is an innovative and highly efficient platform for creating web services. But Node.js doesn't live in a vacuum. In a modern web development many different components need to be put together: routing, database driver, ORM, session management, OAuth, HTML template engine, CSS compiler, and many more. 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. As a web developer, you'll work with a varied collection of standards and frameworks. Practical Node.js shows you how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full stack web applications by harnessing the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoose and MongoLab, Jade and Handlebars template engines, Stylus and LESS CSS languages, OAuth and Everyauth libraries, and the Socket.io and Derby libraries, and everything in between. The book 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.

*Building Real-Time Applications with Node.js* Nolan Brackenridge, Talon Fitzgerald, 2015-06-14

Create High Performance Real Time Web Apps with Node.js

Looking to build real time applications that can scale seamlessly? Building Real Time Applications with Node.js is your go to guide for creating fast, scalable web apps that update in real time, all with the power of Node.js. Whether you're a developer seeking to understand Node.js in depth or looking to enhance your real time app development skills, this book takes you through the entire process from basic concepts to advanced techniques. With step by step instructions and practical projects, you'll master real time web technologies like WebSockets, Socket.io, and REST APIs to handle thousands of simultaneous users with ease.

What You'll Learn Inside Building Real Time Applications

- Understand the core concepts behind real time apps and how to use Node.js to create them.
- Using WebSockets and Socket.io
- Set up WebSockets to allow real time bidirectional communication between the client and server.
- Creating Scalable Architectures: Design applications that can scale effectively to support a large number of concurrent users.
- Developing APIs with Node.js: Learn how to create robust REST APIs to handle requests efficiently.
- Deploying Real Time Applications: Understand how to deploy your real time apps to the cloud with platforms like Heroku and AWS.
- Handling Data in Real Time: Use Redis, MongoDB, and other technologies to manage and store real time data efficiently.

Why This Book Stands Out

Step by Step Projects: Learn by building practical applications like a real time chat app, collaborative drawing app, and live sports score tracker.

Beginner to Advanced: Whether you're just starting with Node.js or have some experience, this book covers both basic concepts and advanced real time features.

Focus on Scalability: Learn how to optimize your applications to scale effectively and handle thousands of simultaneous users.

Comprehensive and Practical: Clear explanations and hands on coding examples guide you through creating real world applications from scratch.

Grab your copy now and start building scalable real time web applications with

Node.js today     **Learning Node.js** Marc Wandschneider, 2013 Learning Node.js A Hands On Guide to Building Web Applications in JavaScript Node.js makes it far easier to create fast compact and reliable web network applications and web servers and is rapidly becoming indispensable to modern web developers Learning Node.js brings together the knowledge and JavaScript code you need to build master the Node.js platform and build server side applications with extraordinary speed and scalability You'll start by installing and running Node.js understanding the extensions it uses and quickly writing your first app Next building on the basics you'll write more capable application servers and extend them with today's most powerful Node.js tools and modules Finally you'll discover today's best practices for testing running Node.js code on production servers and writing command line utilities Throughout the book author Marc Wandschneider teaches by walking you line by line through carefully crafted examples demonstrating proven techniques for creating highly efficient applications and servers Build Node.js solutions that leverage your current JavaScript skills Master Node.js nonblocking IO and async programming Handle more requests and increase your application's flexibility Use and write your own modules Perform common JSON web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries Simplify development with the express framework Create database back ends using popular NoSQL and relational databases Deploy and run Node.js apps on Unix OS X or Windows servers Take advantage of multiprocessor hardware Support virtual hosts and SSL HTTPS security Test Node.js programs that mix synchronous async and RESTful server API functionality

**Mastering Node.js** Caroline Davis, 2023-04-29 This comprehensive guide takes you on a journey from the basics of Node.js to the advanced concepts and techniques needed to build enterprise level web applications With step by step instructions and practical examples you'll gain a deep understanding of Node.js and its core libraries including Express Socket IO and more But Mastering Node.js is more than just a technical manual It's designed to help you think like a Node.js developer providing you with the skills and insights needed to build complex applications that can handle heavy traffic and scale with ease From optimizing database queries to implementing security best practices this book covers all the critical areas of Node.js development But what sets Mastering Node.js apart is its focus on practical application Each chapter includes real world examples that demonstrate how to apply the concepts covered in the book to solve common web development challenges You'll learn how to build RESTful APIs handle websockets and integrate with third party services like AWS and Firebase Whether you're a seasoned developer looking to expand your skillset or a newcomer to Node.js Mastering Node.js is the ultimate guide to building scalable web applications With its comprehensive coverage practical examples and expert insights this book will help you take your Node.js development to the next level Don't miss out on the opportunity to become a Node.js expert and build high performance web applications Order your copy of Mastering Node.js today     [Full-Stack Web Development](#) THOMPSON. CARTER, 2025-03-21 Take your web development skills to the next level with Full Stack Web Development Building Scalable Web Apps with React and Node.js This hands on guide will teach you how to build dynamic real world web



applications using two of the most powerful frameworks in the industry React and Node js Whether you re a beginner looking to break into web development or an experienced developer looking to enhance your full stack capabilities this book has everything you need We ll walk you through the process of creating scalable high performance web applications by mastering the essential technologies of React for frontend development and Node js for backend development Learn how to build responsive interactive user interfaces with React s component based architecture while leveraging Node js for handling requests managing data and powering your web application s backend Through practical examples you ll dive into RESTful API development database integration user authentication and deploying your app to the cloud This book covers not only the core concepts but also best practices for building maintainable and efficient full stack applications that can handle real world traffic Updated for 2025 Full Stack Web Development covers the latest tools libraries and best practices to ensure you re using modern techniques and staying competitive in the fast evolving world of web development Full-Stack React, TypeScript, and Node David Choi,2020-12-18 Discover the current landscape of full stack development and how to leverage modern web technologies for building production ready React js applications to deploy on AWS Key FeaturesUnderstand the architecture of React and single page applicationsBuild a modern Web API for your SPA using Node js Express and GraphQLGain a clear and practical understanding of how to build a complete full stack applicationBook Description React sets the standard for building high performance client side web apps Node js is a scalable application server that is used in thousands of websites while GraphQL is becoming the standard way for large websites to provide data and services to their users Together these technologies when reinforced with the capabilities of TypeScript provide a cutting edge stack for complete web application development This book takes a hands on approach to implementing modern web technologies and the associated methodologies for building full stack apps You ll begin by gaining a strong understanding of TypeScript and how to use it to build high quality web apps The chapters that follow delve into client side development with React using the new Hooks API and Redux Next you ll get to grips with server side development with Express including authentication with Redis based sessions and accessing databases with TypeORM The book will then show you how to use Apollo GraphQL to build web services for your full stack app Later you ll learn how to build GraphQL schemas and integrate them with React using Hooks Finally you ll focus on how to deploy your application onto an NGINX server using the AWS cloud By the end of this book you ll be able to build and deploy complete high performance web applications using React Node and GraphQL What you will learnDiscover TypeScript s most important features and how they can be used to improve code quality and maintainabilityUnderstand what React Hooks are and how to build React apps using themImplement state management for your React app using ReduxSet up an Express project with TypeScript and GraphQL from scratchBuild a fully functional online forum app using React and GraphQLAdd authentication to your web app using RedisSave and retrieve data from a Postgres database using TypeORMConfigure NGINX on the AWS cloud to deploy and serve your appsWho this book is for The

book is for web developers who want to go beyond front end web development and enter the world of full stack web development by learning about modern web technologies and how they come together A good understanding of JavaScript programming is required before getting started with this web development book

**Node Cookbook** David Mark Clements, Matthias Buus, Matteo Collina, 2017-07-31 Over 60 high quality recipes covering debugging security performance microservices web frameworks databases deployment and more rewritten for Node js 8 Node js 6 and Node js 4 About This Book Actionable recipes across the full spectrum of Node js development Cutting edge techniques and tools for measuring and improving performance Best practices for creating readily scalable production systems Who This Book Is For If you have good knowledge of JavaScript and want to build fast efficient scalable client server solutions then this book is for you Some experience with Node js is assumed to get the most out of this book If working from a beginner level Node Cookbook 2nd Edition is recommended as a primer for Node Cookbook 3rd Edition What You Will Learn Debug Node js programs Write and publish your own Node js modules Detailed coverage of Node js core API s Use web frameworks such as Express Hapi and Koa for accelerated web application development Apply Node js streams for low footprint data processing Fast track performance knowledge and optimization abilities Persistence strategies including database integrations with MongoDB MySQL MariaDB Postgres Redis and LevelDB Apply critical essential security concepts Use Node with best of breed deployment technologies Docker Kubernetes and AWS In Detail Today s web demands efficient real time applications and scalability Asynchronous event driven programming is ideal for this and this is where Node js comes in Server side JavaScript has been here since the 90s but Node got it right With Node for tooling and server side logic and a browser based client side UI everything is JavaScript This leads to rapid fluid development cycles The full stack single language experience means less context switching between languages for developers architects and whole teams This book shows you how to build fast efficient and scalable client server solutions using the latest versions of Node The book begins with debugging tips and tricks of the trade and how to write your own modules Then you ll learn the fundamentals of streams in Node js discover I O control and how to implement the different web protocols You ll find recipes for integrating databases such as MongoDB MySQL MariaDB Postgres Redis and LevelDB We also cover the options for building web application with Express Hapi and Koa You will then learn about security essentials in Node js and advanced optimization tools and techniques By the end of the book you will have acquired the level of expertise to build production ready and scalable Node js systems The techniques and skills you will learn in this book are based on the best practices developed by nearForm one of the leaders in Node implementations who supported the work of the authors on this book Style and approach This recipe based practical guide presents each topic with step by step instructions on how you can create fast and efficient server side applications using the latest features and capabilities in Node 8 whilst also supporting usage with Node 4 and 6

**Deploying Node.js** Sandro Pasquali, 2015-07-23 Node js is a popular choice for teams that need to design build test deploy maintain and monitor large

scale distributed systems Starting with a detailed overview of the Node js architecture this book covers topics that will help in application development testing deployment and maintenance You will learn about concurrency event loops callbacks and streams Furthermore step by step instructions on deploying applications to providers such as DigitalOcean and Heroku will be provided including information on setting up load balancers and proxies Message queues and other techniques for managing state and session data at scale will also be covered A series of examples on deploying your Node js applications in production environments are provided including a discussion on setting up continuous deployment and integration for your team Popular tools for testing deploying building and monitoring Node js applications are covered helping you get up and running quickly

**Learn Node. Js by Building 6 Projects** Eduonix Learning Solutions,2018-03-30 This is an advanced practical guide to harnessing the power of Node js by creating 6 full scale real world projects from creating a chat application to an eLearning system Key Features Develop scalable and lightweight applications using Node js Learn how to interface Node js with other popular technologies such as MongoDB MySQL and more Your companion to master the Node ecosystem through six real world projects Book Description With its event driven architecture and efficient web services capabilities more and more companies are building their entire infrastructure around Node js Node has become a de facto part of web development that any serious developer needs to master This book includes six Node js projects that gradually increase in complexity You ll start by building a simple web server and create a basic website You will then move to create the login system blog system chat system and e learning system By creating and following the example projects in this book you ll improve your Node js skills through practical working projects and you ll learn how to use Node js with many other useful technologies such as ExpressJS Kickstart and Heroku What you will learn Create powerful applications using Node js Build scalable and lightweight web applications Use the Express Framework to build web applications Understand the coding principles behind practical web applications Understand the concepts of network programming Use Node js with other technologies including Kickstart and Heroku Use Node with database technologies Cassandra and MongoDB Who this book is for If you are a web developer or a student who wants to learn about Node js in a hands on manner this book will be perfect for you A basic understanding of HTML JavaScript and some front end programming experience is required [Web Development with MongoDB and Node](#) Bruno Joseph D'mello,Mithun Satheesh,Jason Krol,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 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.

**[Node.js Complete Reference Guide](#)** Valentin Bojinov, David Herron, Diogo Resende, 2018-12-18

Node.js Complete Reference Guide is your one stop solution to building highly scalable single language applications that share code between the server and client.

**Key Features**

- Explore the latest JavaScript features and EcmaScript modules
- Walk through different stages of developing robust applications using Node.js
- Create rich and scalable RESTful API solutions from scratch

**Book Description**

Node.js Complete Reference Guide takes you through rudimentary knowledge of JavaScript and server side development to create, maintain, deploy and test your own Node.js applications. You will begin by learning how to use the HTTP Server and Client objects, store data with both SQL and MongoDB databases and unit test applications with Mocha 5.x and functionally test them with Puppeteer 1.1.x. Then you will learn to create scalable and rich RESTful applications on the Node.js platform and write a simple HTTP request handler with self-descriptive URLs. You will learn to set accurate HTTP status codes, study how to keep your applications backward compatible and explore some authentication techniques to secure your application. Then you will study how Node.js has emerged as a strong candidate for developing microservices. With this Learning Path you will be able to use the best

practices and create efficient microservices This Learning Path includes content from the following Packt products RESTful Web API Design with Node.js 10 Third Edition by Valentin Bojinov Node.js Web Development Fourth Edition by David Herron Hands On Microservices with Node.js by Diogo Resende What you will learn Work with REST service development using the Restify framework Use data storage engines such as MySQL, SQLITE3 and MongoDB in apps Apply user authentication methods with OAuth2 Perform real time communication with the front end using Socket IO Implement Docker microservices in development testing and deployment Perform unit testing with Mocha 5.x and functional testing with Puppeteer 1.1.x Use self descriptive URLs and set accurate HTTP status codes Deploy a cloud native microservice to an online provider Who this book is for Node.js Complete Reference Guide is designed for web developers who have a rudimentary understanding of JavaScript and web application development are keen to enrich their development skills to create RESTful applications and want utilize their skills to build microservices

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