



Community Experience Distilled

Node Web Development

Second Edition

A practical introduction to Node.js, an exciting server-side JavaScript web development stack

David Herron

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Node.js Web Development David Herron, 2018-05-30 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 JavaScript is no longer just for browsers and this exciting introduction to Node.js will show you how to build data intensive applications that run in real time

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 will 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

Node Web Development, Second Edition David Herron, 2013-07-19 Presented in a simple step by step format this book is an introduction to web development with Node This book is for anybody looking for an alternative to the P languages Perl PHP Python or anyone looking for a new paradigm of server side application development The reader should have at least a rudimentary understanding of JavaScript and web application development

Node.js Web Development - Fifth Edition David Herron, 2020-07-31 **Node.js Web Development** David Herron, 2020-07-31 Build scalable web applications using Node.js Express.js and the latest ECMAScript techniques along with deploying applications with AWS and Docker with this updated fifth edition Key Features Learn backend web programming with the JavaScript stack Explore best

practices right from configuring and building web servers to deploying them on a production cloud hosting system AWS using Docker and Terraform Work through the different stages of developing robust and scalable apps using Node js 14 Book Description Node js is the leading choice of server side web development platform enabling developers to use the same tools and paradigms for both server side and client side software This updated fifth edition of Node js Web Development focuses on the new features of Node js 14 Express 4 x and ECMAScript taking you through modern concepts techniques and best practices for using Node js The book starts by helping you get to grips with the concepts of building server side web apps with Node js You ll learn how to develop a complete Node js web app with a backend database tier to help you explore several databases You ll deploy the app to real web servers including a cloud hosting platform built on AWS EC2 using Terraform and Docker Swarm while integrating other tools such as Redis and NGINX As you advance you ll learn about unit and functional testing along with deploying test infrastructure using Docker Finally you ll discover how to harden Node js app security use Let s Encrypt to provision the HTTPS service and implement several forms of app security with the help of expert practices With each chapter the book will help you put your knowledge into practice throughout the entire life cycle of developing a web app By the end of this Node js book you ll have gained practical Node js web development knowledge and be able to build and deploy your own apps on a public web hosting solution What you will learn Install and use Node js 14 and Express 4 17 for both web development and deployment Implement RESTful web services using the Restify framework Develop test and deploy microservices using Docker Docker Swarm and Node js on AWS EC2 using Terraform Get up to speed with using data storage engines such as MySQL SQLite3 and MongoDB Test your web applications using unit testing with Mocha and headless browser testing with Puppeteer Implement HTTPS using Let s Encrypt and enhance application security with Helmet Who this book is for If you re looking for an alternative to the P languages Perl PHP and Python or if you want to get started with server side web development with JavaScript programming or if you want a deep dive into deploying services to cloud hosting this Node js book is for you A rudimentary understanding of JavaScript and web application development is a must before you get started with this book Table of Contents About Node js Setting Up Node js Exploring Node js Modules HTTP Servers and Clients Your First Express Application Implementing the Mobile First Paradigm Data Storage and Retrieval Authenticating Users with a Microservice Dynamic Client Server Interaction with Socket IO Deploying Node js Applications to Linux Servers Deploying Node js microservices with Docker Deploying a Docker Swarm to AWS EC2 with Terraform Unit Testing and Functional Testing Security in Node js Applications **Modern Web Testing with TestCafe** Dmytro Shpakovskyi,2020-09-30 A no nonsense guide to getting started with TestCafe quickly by building a complete test suite while learning the core concepts of test automation with TestCafe Key FeaturesBuild a proof of concept project to demonstrate your familiarity with TestCafeDiscover useful tips and best practices for building production ready and fault tolerant testsWrite clean and maintainable tests by refactoring your codebase using PageObject patternBook

Description TestCafe is an open source end to end testing framework that combines unmatched ease of use with advanced automation and robust built in stability mechanisms This book is a comprehensive project based introduction to TestCafe that will show you how to use the TestCafe framework and enable you to write fast and reliable tests plus you ll have a proof of concept ready to demonstrate the practical potential of TestCafe You ll begin by learning how to write end to end web tests using the TestCafe syntax and features of the TestCafe framework You ll then go from setting up the environment all the way through to writing production ready tests You ll also find out how to build a sample set of tests in a step by step manner and use TestCafe to log in to the website verify the elements present on different pages create delete entities and run custom JavaScript code As you advance you ll delve into several stages of refactoring that will take you through the showcase setup teardown and PageObject patterns While this test suite is relatively simple to build it showcases some of the most prominent features of TestCafe Finally this TestCafe book will show you how the tests can be run on a free and simple to use website without requiring you to build and deploy your own servers or backend services By the end of this book you ll have learned how to write and enhance end to end tests with TestCafe to solve real world problems and deliver results What you will learn Understand the basic concepts of TestCafe and how it differs from classic Selenium Find out how to set up a TestCafe test environment Run TestCafe with command line settings Verify and execute TestCafe code in the browser Automate end to end testing with TestCafe using expert techniques Discover best practices in TestCafe development and learn about the future roadmap of TestCafe Who this book is for The book is for QA professionals test engineers software engineers and test automation enthusiasts looking for hands on guidance on learning about TestCafe This book is also great for full stack developers who want to learn more about new tools for testing their code The book assumes a basic understanding of JavaScript Node js HTML CSS and some simple Bash commands

Mastering Node.js Sandro Pasquali, 2013-11-25 This book contains an extensive set of practical examples and an easy to follow approach to creating 3D objects This book is great for anyone who already knows JavaScript and who wants to start creating 3D graphics that run in any browser You don t need to know anything about advanced math or WebGL all that is needed is a general knowledge of JavaScript and HTML The required materials and examples can be freely downloaded and all tools used in this book are open source *Full Stack JavaScript* Azat Mardan, 2015-12-30 This is a hands on book which introduces you to agile JavaScript web and mobile software development using the latest cutting edge front end and back end technologies including Node js MongoDB Backbone js Parse com Heroku and Windows Azure Practical examples include building multiple versions of the Chat app jQuery Parse com JS REST API Backbone and Parse com JS SDK Backbone and Node js Backbone and Node js MongoDB The Chat application has all the foundation of a typical web mobile application fetching data displaying it submitting new data Other examples in the book are as follows jQuery Twitter RESP API Tweet Analyzer Parse com Save John MongoDB Print Collections Backbone js Apple Database Monk Express js REST API Server This book will save you many hours by providing a

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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

Mastering jQuery Mobile Chip Lambert,Shreerang Patwardhan,2015-07-30 jQuery Mobile is a touch optimized JavaScript framework Using this framework we can create mobile web applications using standard web technologies such as HTML5 CSS3 and JavaScript which will function and behave consistently across multiple devices of different form factors The book starts with you setting up the development environment that will enable you to complete the project that accompanies the book Furthermore you will get a brief overview of developing for mobile devices and a brief look at RESS You will then start putting together a touch based navigation system as you link pages together and explore the various widgets and controls used to build the project Finally some mobile best practices that will benefit you will be looked at as you go deeper into jQuery Mobile development By the end of the book you will be well equipped with an extensive knowledge of jQuery Mobile not only to build applications but to effectively customize and maintain them

Web Technologies: Theory & Practical Raman Dugyala,2025-06-01

Building Microservices with Node.js Daniel Kapexhiu,2024-05-03 Venture into microservices with Node js uncovering step by step roadmaps insightful demonstrations and cutting edge techniques to build robust web applications Key Features Explore microservices architecture and implement it using Node js for robust web applications Follow clear practical examples and real world use cases to apply your knowledge and build your skills Excel in the world of software development and tackle complex challenges with confidence Purchase of the print or Kindle book includes a free PDF eBook Book Description Immerse yourself in the world of microservices with this guide to migration from a monolithic

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[Node Cookbook: Second Edition](#) David Mark Clements,2014-04-25 In Node Cookbook Second Edition each chapter focuses on a different aspect of working with Node Following a Cookbook structure the recipes are written in an easy to understand language Readers will find it easier to grasp even the complex recipes which are backed by lots of illustrations tips and hints If you have some knowledge of JavaScript and want to build fast efficient scalable client server solutions then Node Cookbook Second Edition is for you Knowledge of Node will be an advantage but is not required Experienced users of Node will be able to improve their skills

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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 [Node.js for Beginners](#) Ulises Gascón,2024-05-10 Build your first production grade web app from scratch using Node js Express MongoDB authentication and testing with guidance from a member of the Express Technical Committee as well as a Node js core collaborator and releaser Key Features Learn JavaScript async programming and event driven architectures in Node js Discover best practices for secure deployment and testing of Node js apps Build a feature rich web app from scratch using MongoDB Express js and passport js including testing Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionNode js revolutionizes server side JavaScript development and empowers developers to build efficient scalable and versatile applications across a range of use cases This book is written by a Node js core collaborator and releaser and is the only book for beginners on Node js It takes you on a progressive learning path that will give you the skills needed to leverage Node js You ll learn Node js fundamentals and refresh your knowledge of JavaScript before transitioning to the development of modern web applications using Node js Express js and MongoDB You ll get hands on with complex topics such as asynchronous programming npm libraries event driven patterns for HTTP servers RESTful API and JSON Web Tokens The final chapters will walk you through the deployment process offering insights into various strategies including bare metal setups virtual machines and containerization with Docker You ll also be guided through the use of Process Manager 2 PM2 for efficient process management By the end of this Node js book you ll have the skills to craft test and deploy Node js web applications confidently and use this powerful stack in your day to day projects What you will learn Build solid and secure Node js applications from scratch Discover how to consume and publish npm packages effectively Master patterns for refactoring and evolving your applications over time Gain a deep understanding of essential web development principles including HTTP

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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 FeaturesImplement practical solutions for scaling securing and testing your Node js web apps effectivelyBuild and deploy scalable microservices architecture with the power of Node js 14Discover techniques for debugging and testing Node js applicationsBook 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 learnUnderstand the Node js asynchronous programming modelCreate simple Node js applications using modules and web frameworksDevelop simple web applications using web frameworks such as Fastify and ExpressDiscover tips for testing optimizing and securing your web applicationsCreate and deploy Node js microservicesDebug and diagnose issues in your Node js applicationsWho 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

Supercharging Node.js Applications with Sequelize Daniel Durante,Sascha Depold,2022-10-28 A hands on implementation guide to application development in Node js using the powerful Sequelize ORM Key FeaturesUse the highly powerful JavaScript library to map your database to objects easilyBuild an application from scratch with easy to follow steps and examplesDiscover industry best practices tips and techniques on Sequelize to manage your database with easeBook Description Continuous changes in business requirements can make it difficult for programmers to organize business logic into database models which turns out to be an expensive

operation as changes to the database may result in errors and incongruity within applications

Supercharging Node.js Applications with Sequelize

helps you get to grips with Sequelize a reliable ORM that enables you to alleviate these issues in your database and applications

With Sequelize you'll no longer need to store information in flat files or memory

This book takes a hands-on approach to implementation and associated methodologies for your database that will have you up and running in no time

You'll learn how to configure Sequelize for your Node.js application properly

develop a better sense of understanding of how this ORM works and find out how to manage your database from Node.js using Sequelize

Finally you'll be able to use Sequelize as the database driver for building your application from scratch

By the end of this Node.js book you'll be able to configure build store retrieve validate and associate your data from a database to a Node.js application

What you will learn

- Configure and optimize Sequelize for your application
- Validate your database and hydrate it with data
- Add life cycle events or hooks to your application for business logic
- Organize and ensure the integrity of your data even on preexisting databases
- Scaffold a database using built-in Sequelize features and tools
- Discover industry based best practices tips and techniques to simplify your application development

Who this book is for

This book is for beginner to intermediate level Node.js developers looking to upgrade their skills and use Sequelize as their ORM of choice

Basic knowledge of and prior experience with JavaScript and SQL are needed to make the most out of this book

Node.js Web Development - Fourth Edition

David Herron, 2018

Create real-time applications using Node.js 10 Docker MySQL MongoDB and Socket IO with this practical guide and go beyond the developer's laptop to cover live deployment including HTTPS and hardened security

About This Book

Learn server-side JavaScript coding through the most up-to-date book on Node.js

Explore the latest JavaScript features and ECMAScript modules

Walk through different stages of developing robust applications using Node.js 10

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 10 for both development and deployment
- Use the Express 4.16 application framework
- Work with REST service development using the Restify framework
- Use data storage engines such as MySQL SQLite3 and MongoDB
- Use 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
- Work with HTTPS using Let's Encrypt and application security with Helmet

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

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 maintain deploy and test your own Node.js application

You will understand the importance of transitioning to functions that return Promise objects and the

difference between fs fs promises and fs extra 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 use some well known tools to beef up security of Express 4 16 applications Style and approach Benefit from an easy step by step approach that really works Downloading the example code for this book You can d **IPTV Monthly Newsletter December 2010** ,
 Contemporary Architects Muriel Emanuel,2016-01-23

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