Learn to code interactively using only your browser. Practice labs and projects:

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Module | Course | Topic

Backend Web Development

Basics of Web

Learn about internet fundamentals, why you are learning what you're learning & the high overview of full-stack.

1. Internet Fundamentals
   - Internet & DNS
   - HTTP

Intro. to Backend Web Dev

Backend starts from servers, & we'll start from there - Linux OS & work with bash CLI & start your backend journey with Node.js

1. Linux Fundamentals
   - Common Commands
   - Nano Text Editor
   - Shell Scripting Basics
2. Version Control System
   - Branches
   - Merging
   - Local Repository
   - Remote Repository
   - Pull Requests
3. Node.js Fundamentals
   - CommonJS Module System
   - ES6 Module System
   - Servers

Node.js, MongoDB, GraphQL

Databases, a programming language & APIs are the most important parts of backend web development.

1. Advanced Node.js Concepts
   - Node.js Internals
   - Threadpool in libuv
   - Event Loop
2. Working with MongoDB
   - Mongoose Basics
   - CRUD with MongoDB
   - JWT Authentication
3. Understanding GraphQL
   - GraphQL Language
   - GraphQL API w/ NodeJS
   - GraphQL In ReactJS
   - Advanced GraphQL

Caching & CI/CD

1. Caching w/ Redis
   - API Caching
   - Rate Limiting
2. CI/CD w/ GitHub Actions
   - YAML
   - Github Actions

Production-Ready Backends

Making an app is very different from making a production-ready app. This part covers what it takes to build one.

1. Building Production Apps w/ Next.js
   - Styling
   - Next.js APIs
   - Routing
   - Server-Side Rendering
2. Advanced Next.js Concepts
   - Static Site Generation
   - Server-Side Rendering
3. TypeScript Fundamentals
4. Writing Secure Web Apps
   - Frontend Web Security
   - Backend Web Security

Official Certification

Final certification exam for backend web developer learning path

- Backend Interview Questions
- Backend Certification Exam
  - Coming Soon!