Back-End Developer Roadmap

Starting with web development can be overwhelming. This back-end developer roadmap will guide you to start with it in the proper way. We will cover the most important building blocks of the web. This guide will help you to become a modern back-end developer.





Learn Basic Front-End Dev

You must know basics of front-end development, and how things work in the browser.





Js JavaScript

Once you know basic front-end, you can then jump right into learning a programming language, there are so many options of programming language that you can learn to become a backend developer.

Note: You don't need to know multiple programming languages to become a backend developer.

Choose a Programming language



Js JavaScript



Python



PHP



Ruby



Rust



Java



Go Lang



Then choose a Framework according to your programming language

Js JavaScript

JavaScript Runtime

Node.js



Node.js Popular Framework













koa Koa







Django



Flask



Php PHP Popular Framework



Laravel



Symfony



Popular Framework





Sinatra



Popular Framework



Spring



Google Web Toolkit



Popular Framework







Popular Framework





asp.net is also a popular framework of C#

Backend concepts you should learn

- > HTTP / HTTPS
- REST
- GraphQL
- Web Sockets
- **♥** CORS
- MVC Architecture
- ★ CI / CD
- Serverless

Learn about databases

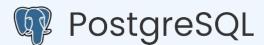
2 Types of Databases

SQL NoSQL



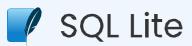
MongoDB

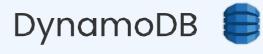




CouchDB (=)







Learn Caching



Redis



Memcached

ORM / ODM



Mongoose (MongoDB)



Prisma (SQL)



Sequelize (SQL)

Essential things to learn



Authentication



OAuth



Hashing (bcrypt)



Rate Limiting



Reverse proxy



Load balancer



Documentation (Swagger)

Learn any HTML Templating Engine







Handlebars



doT



Jade



Eta

Other Important Topics



Linux



Terminal (CLI)



Git



Basic Networking



Web Security



Payment Gateways



Testing

Learn to deploy and learn any cloud service





Google Cloud





Digital Ocean





* aws AWS



Azure



Heroku



Linode



Vercel

Optional things to learn



Docker



Performance



Scalability



Kubernetes

Tools to learn as a backend developer



NPM



Yarn



Postman



Insomnia



GitHub

Project Ideas



Social Media Web App



Chat App



Video Chat App



REST API



Amazon Scraper API



Web Scraper



URL Shortner



CRUD Blog App

Project Ideas



Discord Clone with webRTC



Travel Log App



File Sharing App



Users System



Multiplayer Game



Gist Clone



Weather Logger



Ecommerce API