



# Back-End Developer Roadmap

 JavaScript Mastery

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.



HTML



CSS



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



JavaScript



Python



PHP



Ruby



Rust



Java



Go Lang

# Then choose a Framework according to your programming language

 JavaScript

JavaScript Runtime

 Node.js

 Deno

# Node.js Popular Framework

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ex      Express.js

 Nest.js

 Fastify

 Sails

 Hapi

 Restify

 Koa

 Python Popular Framework

Django



Flask



PHP Popular Framework



Laravel



Symfony



Popular Framework

---



Rails



Sinatra



Java

Popular Framework

---



Spring



Google Web Toolkit



Rust

Popular Framework

---



Rocket.rs



Popular Framework

---



Gin



ASP .NET

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



MySQL



PostgreSQL



SQL Lite

NoSQL



MongoDB



CouchDB



DynamoDB

# 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



EJS



PUG



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



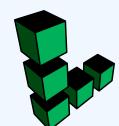
AWS



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**

# Important Note

You don't need to learn all the things mentioned in this roadmap to become a back-end developer or get a job as a back-end developer.

There is no end of learning in web development there's always something to learn.

**So never stop learning!**

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