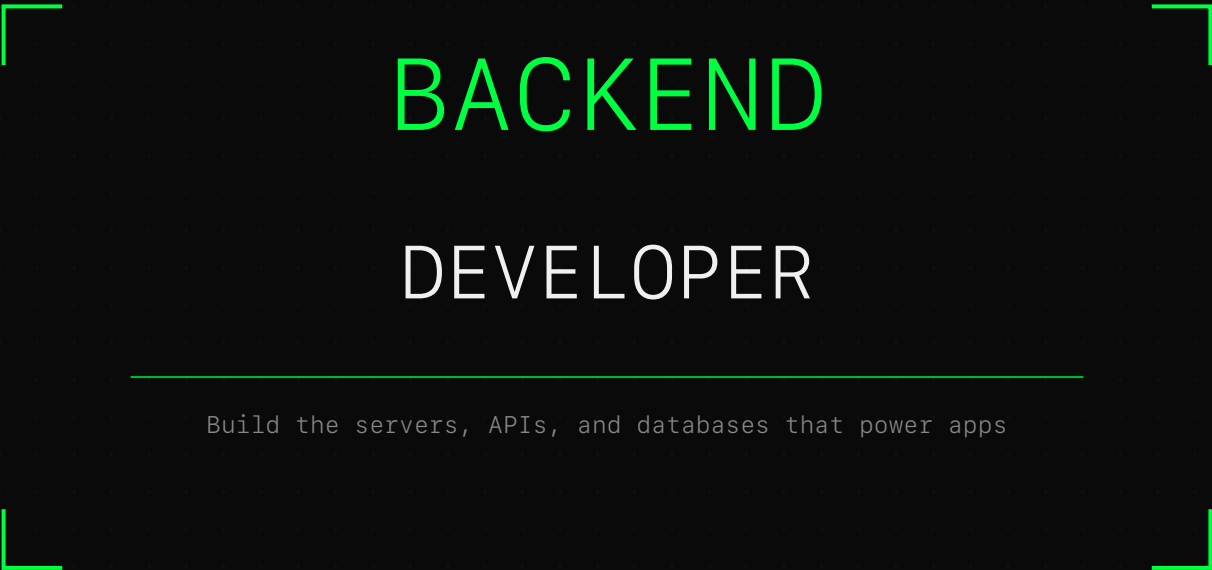




# BACKEND DEVELOPER

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Build the servers, APIs, and databases that power apps

7 stages · progressive skill path

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01

4–6 weeks

## PROGRAMMING FUNDAMENTALS

Python or Node.js

Data Structures

Algorithms (Basics)

OOP Principles

Git + GitHub

Terminal / Bash

Pick one language and go deep – breadth comes later

02

4–6 weeks

## WEB FRAMEWORKS

Express.js or FastAPI or Django

REST API Design

Routing &amp; Middleware

MVC Pattern

Request / Response Cycle

Error Handling

Logging

Build a full CRUD API from scratch without tutorials

03

4–6 weeks

## DATABASES

SQL (PostgreSQL)

NoSQL (MongoDB)

ORM / ODM

Database Design

Indexing

Transactions

Query Optimization

Most backend bugs live in the database layer

04

2–3 weeks

## AUTH & SECURITY

JWT / Sessions

OAuth 2.0 / OIDC

bcrypt / Argon2

HTTPS / TLS

Input Validation

SQL Injection Prevention

Rate Limiting

Security is not a feature – it is a baseline requirement

05

2–3 weeks

## APIS & INTEGRATIONS

RESTful Best Practices

GraphQL Basics

API Versioning

Webhooks

OpenAPI / Swagger Docs

Pagination &amp; Filtering

Third-party SDKs

Design APIs you would want to consume as a frontend dev

06

3–4 weeks

## INFRASTRUCTURE BASICS

Docker &amp; Compose

Linux Fundamentals

Cloud Deployment (AWS/Railway)

CI/CD Basics

Nginx Basics

Environment Variables

Process Managers (PM2)

Every backend dev should be able to deploy their own work



07

4–6 weeks

## ADVANCED BACKEND

Microservices Architecture

Message Queues (Redis / Kafka)

Caching Strategies

WebSockets / SSE

gRPC

Background Jobs

Monitoring &amp; Alerting

Optimize for correctness first, then performance

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