

Swipe



Backend Developer Roadmap



Sumit Jha
Front-End Developer



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JS

JS

OR

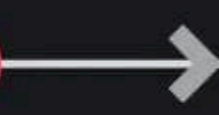


Python

OR



Java



Choose Your Language

JavaScript (Node.js) :

Event-driven, Asynchronous programming.

Python :

Flask, Django.

Java :

Spring Boot.

Other options :

Ruby (Ruby on Rails), PHP (Laravel).



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Database

Understand Data Storage

Relational Databases :

SQL, PostgreSQL, MySQL – ACID properties, Joins, Indexes.

NoSQL Databases :

MongoDB, Redis – Document-based, Key-Value pairs.

ORMs :

Sequelize, Mongoose, Hibernate.



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Web Server



APIs



GraphQL



Web Servers and APIs

Web Servers :

Express.js, Nginx, Apache.

RESTful APIs :

HTTP Methods, Status Codes, JSON.

GraphQL :

Queries, Mutations, Resolvers.



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Security

Authentication & Security

Authentication :

JWT, OAuth2.

Security Best Practices :

HTTPS, CORS, SQL Injection prevention, XSS prevention.

Encryption :

SSL/TLS, Hashing (bcrypt).



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Caching



Performance

Caching & Performance Optimization

Caching :

Redis, Memcached – In-memory data storage.

Load Balancing :

Round-robin, Sticky sessions.

Performance Optimization : Lazy loading, Database indexing, Query optimization.



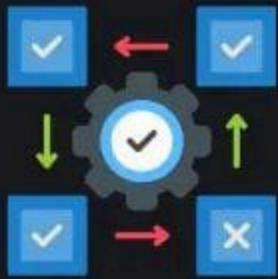
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Unit Testing



Postman



Debugger

Testing and Debugging

Unit Testing :

Mocha, Chai, JUnit.

Integration Testing :

Postman, Newman.

Debugging Tools :

Node.js Debugger, PyCharm Debugger.



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Deployment



Monitoring



Keep Learning

Deployment & Monitoring

Deployment Platforms :

AWS, Heroku, Docker – Containers, Serverless.

CI/CD :

Jenkins, GitHub Actions, Travis CI.

Monitoring :

Prometheus, Grafana, ELK Stack.



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If you want Roadmap for
Any Role
Let me know in comments



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