

Tips To Grow

# Backend Developer RoadMap

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# Choose Your Language

## **JavaScript (Node.js):**

Event-driven, Asynchronous programming.

## **Python:**

Event-driven, Asynchronous programming.

## **Other Option**

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

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# Understand Data Storage

## Relational Databases:

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

## NoSQL Databases:

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

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# Web Servers and APIs

## Web Servers:

Express.js, Nginx, Apache.

## RESTful APIs :

HTTP Methods, Status Codes, JSON.

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# Authentication & Security

## Authentication:

JWT, OAuth2.

## Security Best Practices:

HTTPS, CORS, SQL Injection prevention, XSS prevention.

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# 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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# Testing and Debugging

## Unit Testing:

Mocha, Chai, JUnit.

## Integration Testing :

Postman, Swagger.

## Debugging Tools:

Node.js Debugger, PyCharm Debugger.

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# Deployment & Monitoring

## Deployment Platforms:

AWS, Heroku, Docker - Containers, Serverless.

## CI/CD:

Jenkins, GitHub Actions, Travis Cl.

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