

■ Java Full Stack Developer Roadmap (Practical & Detailed)

Phase 1: Core Foundations (2–3 months)

- Java Basics (OOP, Collections, Exception Handling, Streams, Java 8 features).
- SQL & Databases (SELECT, INSERT, UPDATE, DELETE, Joins, Normalization).
- HTML, CSS, JavaScript basics (DOM, Flexbox, ES6 features).
- ■ Extra Attention: OOP, Collections, SQL Joins, JavaScript fundamentals.
- Mini Projects: Student Management System, To-Do List, Library Management.

Phase 2: Backend Development (2–3 months)

- JDBC, Servlets/JSP basics (request/response lifecycle).
- Spring Boot (REST APIs, JPA, Exception Handling, Validation, Security).
- ■ Extra Attention: REST APIs + JPA + Security.
- Mini Projects: Online Student Registration System, Employee Management System.

Phase 3: Advanced Frontend (2–3 months)

- Advanced JavaScript (async/await, Fetch API).
- React.js (Components, Hooks, Router, API integration).
- ■ Extra Attention: React Hooks, API integration.
- Mini Projects: Weather App, Frontend for Employee Management System.

Phase 4: Integration + Advanced Tools (1–2 months)

- React + Spring Boot integration.
- JWT Authentication, CORS handling, Postman.
- Git/GitHub, Maven/Gradle, Deployment (Heroku/AWS/Docker).
- ■ Extra Attention: JWT Auth + API integration.
- Major Project: Full Stack Employee/Student Portal (React + Spring Boot + MySQL).

Phase 5: Mastery & Job Preparation (2 months ongoing)

- System Design basics, SQL optimization, LeetCode practice.
- Final Portfolio Projects: E-Commerce App, Blogging Platform, Online Learning System.

Project Timing Guidelines

- Mini projects → after finishing each major topic.
- Major project → after completing backend & frontend.
- Final portfolio project → before applying for jobs.

Key Tips

- Don't rush – build projects as you go.
- Push all projects to GitHub (employers check this).
- Extra Attention: Java OOP, SQL Joins, Spring Boot APIs, React Hooks.