

Full Stack Java Developer - 90 Day Roadmap

Days 1 - 7: Java Basics

- Install JDK & IDE (IntelliJ/Eclipse)
- Variables, Data Types, Operators
- If-Else, Switch
- Loops (for, while, do-while)
- Arrays and Methods

Days 8 - 15: OOP Concepts

- Class & Object
- Constructor & this keyword
- Inheritance & Polymorphism
- Abstraction & Interface
- Encapsulation & Access Modifiers

Days 16 - 22: Advanced Java

- String & StringBuilder
- Collections (List, Set, Map)
- Exception Handling
- File Handling
- Java 8 (Lambda, Stream API)

Days 23 - 30: Java Internal Concepts

- JVM, JDK, JRE
- Heap vs Stack Memory
- Garbage Collection
- Multithreading Basics

Days 31 - 40: SQL Database

- Create Table, Primary & Foreign Key
- SELECT, INSERT, UPDATE, DELETE
- WHERE, JOIN
- GROUP BY, HAVING
- Index & Normalization

Days 41 - 45: JDBC

- Connect Java to MySQL
- DriverManager
- PreparedStatement
- CRUD Operations using Java

Days 46 - 55: Spring & Spring Boot Basics

- Spring Core & Dependency Injection
- Spring Boot Setup
- application.properties
- @RestController & Mappings
- Build Simple CRUD API

Days 56 - 65: Spring Data JPA

- @Entity, @Id, @GeneratedValue
- JpaRepository
- OneToOne, OneToMany, ManyToMany
- Connect to MySQL

Days 66 - 72: Exception Handling & Validation

- @ExceptionHandler
- @ControllerAdvice
- @Valid
- Custom Exceptions

Days 73 - 78: Spring Security

- Password Encoding
- Authentication & Authorization
- JWT Implementation

Days 79 - 84: Frontend Basics

- HTML, CSS

- JavaScript DOM
- Fetch API
- Connect to Spring Boot API

Days 85 - 90: React Basics

- Components & Props
- State & useEffect
- Axios
- React Router
- Connect React with Backend

Final Goals After 90 Days:

- Build Full Stack Project (Spring Boot + React)
- Implement JWT Authentication
- Deploy Project (AWS / Render)
- Upload Code to GitHub
- Prepare for Interviews (OOP, SQL, Spring Boot)