LEVEL 1: Core Java (Already You Know the Basics)

Aap yahan tak aa chuke ho:

✓ Variables
✓ Data Types
✓ Loops
✓ Methods
✓ Basic OOP

Ab hum yahan se aage padhenge:

🔥 Core Java Advanced

- Deep OOP (Inheritance, Polymorphism, Abstraction, Encapsulation)
- Constructors, this, super
- Static, final keyword
- Arrays (1D, 2D)
- Strings (Immutable, StringBuilder, StringBuffer)
- Packages & Access Modifiers
- Exception Handling (try, catch, throws, custom exceptions)
- File Handling (FileReader, BufferedReader, FileWriter)
- Multithreading
- Collections Framework
    - List, Set, Map
    - HashMap, HashSet, LinkedList
    - Iterator, Comparable, Comparator
- Java 8
    - Lambda Expressions
    - Stream API
    - Functional Interfaces
    - Optional class

🟦 LEVEL 2: SQL + DB

Because backend developer ko DB aana hi chahiye.

- MySQL / PostgreSQL
- Joins
- Group By
- Index
- Stored Procedures
- JDBC connectivity

🟦 LEVEL 3: Spring + Spring Boot (MOST IMPORTANT)

I will teach you **enterprise-level** Spring Boot development.

💧 Spring Core

- IoC (Inversion of Control)
- Dependency Injection
- @Component, @Autowired
- Bean lifecycle

💧 Spring Boot

- Creating REST APIs
- Controllers, Services, Repository layers
- JPA & Hibernate (ORM)
- MySQL Integration
- One-to-One / One-to-Many Mapping
- Pagination & Sorting
- Validation

- File upload
- Custom Exceptions (Global exception handling)
- Logging
- Profiles (dev, prod)

💧 Spring Security

- Basic Authentication
- Token-based security
- JWT (JSON Web Token)

💧 Microservices (Intro)

- Service registry
- API Gateway
- Communication (RestTemplate / WebClient)

🔳 LEVEL 4: PROJECT DEVELOPMENT (Industry-Grade Projects)

Hum 2–3 real projects बनाएंगे:

1️⃣ Employee Management System API (Spring Boot + MySQL)

- Full CRUD
- Validation
- Logging
- Exception handling
- Pagination

2️⃣ E-Commerce Backend (Major Project)

- Users

- Products
- Cart
- Orders
- JWT Auth
- Payment simulation

3 Blogging Application API

- Roles
- Comments
- Category filtering
- Search

Ye projects GitHub-ready honge → resume me strong impact.

LEVEL 5: Interview Preparation

DSA (Interview Level)

- Arrays
- Strings
- HashMap questions
- Sliding Window
- Recursion
- Tree basics
- Stack/Queue
- Sorting

Java Interview Questions

- OOP
- JVM internals
- Collections
- Spring Boot architecture

- REST APIs
- SQL queries

🌢 Mock Interviews

- Technical round
- HR round

🔲 LEVEL 6: Job Assistance (Java Job Vacancies)

Aapko har week:

- Latest Java Developer vacancies
- Internships
- Off-campus openings
- Referral opportunities

milenge.

Aur main aapko:

✓ Resume tayyar karwata hoon
✓ GitHub portfolio banwata hoon
✓ LinkedIn optimization
✓ Role ke hisaab se aapko apply karwata hoon

Yeh sab 100% roadmap ka part hoga.