Spring Boot Java 90-Day Roadmap

Day	Topic	Hands-on Task
1	OOP Basics	Practice: OOP Basics
2	Inheritance & Polymorphism	Practice: Inheritance & Polymorphism
3	Abstraction & Encapsulation	Practice: Abstraction & Encapsulation
4	Interfaces vs Abstract Classes	Practice: Interfaces vs Abstract Classes
5	Static, Final, This, Super	Practice: Static, Final, This, Super
6	OOP Practice Project	Practice: OOP Practice Project
7	Collections Overview	Practice: Collections Overview
8	Lists, Sets, Maps	Practice: Lists, Sets, Maps
9	Collections Methods & Comparators	Practice: Collections Methods & Comparators
10	Exception Handling Basics	Practice: Exception Handling Basics
11	Custom Exceptions	Practice: Custom Exceptions
12	Multithreading Basics	Practice: Multithreading Basics
13	Thread Synchronization	Practice: Thread Synchronization
14	Volatile & Locks	Practice: Volatile & Locks
15	Streams API Basics	Practice: Streams API Basics
16	Streams Advanced	Practice: Streams Advanced
17	Optional & Method References	Practice: Optional & Method References
18	Lambda Expressions	Practice: Lambda Expressions
19	JDBC Basics	Practice: JDBC Basics
20	SQL Basics	Practice: SQL Basics
21	JDBC CRUD Mini Project	Practice: JDBC CRUD Mini Project
22	Spring Framework Intro	Practice: Spring Framework Intro
23	Spring Core (IoC, DI)	Practice: Spring Core (IoC, DI)
24	Spring Boot Architecture	Practice: Spring Boot Architecture
25	Starter Projects & AutoConfig	Practice: Starter Projects & AutoConfig
26	App Properties & Profiles	Practice: App Properties & Profiles
27	First Spring Boot App	Practice: First Spring Boot App
28	Controllers & Mappings	Practice: Controllers & Mappings
29	RequestBody & PathVariable	Practice: RequestBody & PathVariable
30	Exception Handling in REST	Practice: Exception Handling in REST

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31	CRUD App with Service & Repository	Practice: CRUD App with Service & Repository
32	Validation with @Valid	Practice: Validation with @Valid
33	Spring Data JPA Overview	Practice: Spring Data JPA Overview
34	JPA Repositories & Queries	Practice: JPA Repositories & Queries
35	Entity Relationships (OneToMany, ManyToOne)	Practice: Entity Relationships
36	Hibernate Basics	Practice: Hibernate Basics
37	MySQL/PostgreSQL Integration	Practice: MySQL/PostgreSQL Integration
38	Full CRUD App (with DB)	Practice: Full CRUD App (with DB)
39	Actuator & Monitoring	Practice: Actuator & Monitoring
40	Configuration Management	Practice: Configuration Management
41	Spring Boot Best Practices	Practice: Spring Boot Best Practices
42	Error Handling Patterns	Practice: Error Handling Patterns
43	Spring Security Basics	Practice: Spring Security Basics
44	Authentication & Authorization	Practice: Authentication & Authorization
45	Basic Auth & JWT	Practice: Basic Auth & JWT
46	Role-Based Access Control	Practice: Role-Based Access Control
47	Secure CRUD App	Practice: Secure CRUD App
48	Microservices Overview	Practice: Microservices Overview
49	Eureka Service Discovery	Practice: Eureka Service Discovery
50	Spring Cloud Gateway	Practice: Spring Cloud Gateway
51	Feign Client	Practice: Feign Client
52	Central Config Server	Practice: Central Config Server
53	Circuit Breaker (Resilience4j)	Practice: Circuit Breaker (Resilience4j)
54	API Gateway Security	Practice: API Gateway Security
55	Unit Testing (JUnit, Mockito)	Practice: Unit Testing (JUnit, Mockito)
56	Testing Service Layer	Practice: Testing Service Layer
57	Testing Controllers	Practice: Testing Controllers
58	Docker Basics	Practice: Docker Basics
59	Dockerize Spring App	Practice: Dockerize Spring App
60	Intro to Kubernetes	Practice: Intro to Kubernetes
61	Deploy to Local Kubernetes	Practice: Deploy to Local Kubernetes

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62	Monitoring Microservices	Practice: Monitoring Microservices
63	Microservices Best Practices	Practice: Microservices Best Practices
64	Kafka Overview	Practice: Kafka Overview
65	Producer-Consumer Implementation	Practice: Producer-Consumer Implementation
66	Messaging with RabbitMQ	Practice: Messaging with RabbitMQ
67	Caching with Spring Cache	Practice: Caching with Spring Cache
68	Redis Basics	Practice: Redis Basics
69	Redis Cache in Spring Boot	Practice: Redis Cache in Spring Boot
70	Performance Tuning	Practice: Performance Tuning
71	Spring Boot Logging	Practice: Spring Boot Logging
72	Layered Architecture	Practice: Layered Architecture
73	Capstone Kickoff	Practice: Capstone Kickoff
74	Capstone - Product Service	Practice: Capstone - Product Service
75	Capstone - User Service	Practice: Capstone - User Service
76	Capstone - Order Service	Practice: Capstone - Order Service
77	Capstone - Payment Service	Practice: Capstone - Payment Service
78	Capstone - Notification Service	Practice: Capstone - Notification Service
79	Capstone - Security Layer	Practice: Capstone - Security Layer
80	Capstone - Testing All Services	Practice: Capstone - Testing All Services
81	Capstone - Docker Compose Setup	Practice: Capstone - Docker Compose Setup
82	Capstone - Kubernetes Deployment	Practice: Capstone - Kubernetes Deployment
83	Capstone - Final Review	Practice: Capstone - Final Review
84	Capstone - Resume Preparation	Practice: Capstone - Resume Preparation
85	Capstone - Mock Interview & Wrap-up	Practice: Capstone - Mock Interview & Wrap-up
86	Buffer/Revision Day	Practice: Buffer/Revision Day
87	Buffer/Revision Day	Practice: Buffer/Revision Day
88	Buffer/Revision Day	Practice: Buffer/Revision Day
89	Final Project Submission	Practice: Final Project Submission
90	Final Self-Assessment	Practice: Final Self-Assessment