

3-Month Adaptive SDE Interview Roadmap

3-Month Adaptive SDE Interview Preparation Plan

Week 1

- Arrays, Strings, Hashmaps
- Time & Space Complexity
- REST APIs in Spring Boot
- SQL Basics
- [] Solve 20 LeetCode Easy-Medium
- [] Build CRUD API
- [] Write 3 SQL Joins

Week 2

- Stacks, Queues, Linked Lists
- OS Basics
- SQL Subqueries, Indexes
- Behavioral Prep
- [] Implement Stack/Queue
- [] Review Deadlocks
- [] Create 3 STAR Stories

Week 3

- DP Basics
- SQL Intermediate
- JWT Auth
- [] Solve 10 DP Problems
- [] Secure Spring Boot API
- [] 10 Timed SQL Questions

Week 4

- Graphs (BFS/DFS)
- React Hooks + Context
- System Design Intro
- [] Implement BFS/Dijkstra
- [] Optimize React Renders
- [] Explain URL Shortener Design

Week 5

- Trees & BSTs
- SQL Optimization
- API Pagination

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- ☐ 10 Tree Problems
- ☐ Tune SQL with Index
- ☐ Add Pagination to API

Week 6

- Arrays + DP Revision
- 2D DP (LCS, Matrix Path)
- AWS EC2 + IAM
- ☐ Re-solve 5 old DSA
- ☐ Implement LCS Tabulation
- ☐ Deploy API to EC2

Week 7

- System Design (Redis, Queues)
- Microservices Basics
- ☐ Implement Redis Cache
- ☐ Design Order Service
- ☐ Explain Consistency Trade-offs

Week 8

- Advanced SQL
- React + Backend Integration
- ☐ Write RANK/DENSE_RANK Query
- ☐ Build React Dashboard
- ☐ Optimize REST Calls

Week 9

- LLD + Design Patterns
- Unit Testing (JUnit, Mockito)
- ☐ Design Parking Lot
- ☐ Write API Tests
- ☐ Explain SOLID Principles

Week 10

- Revision + HLD
- Chat/Messaging System Design
- ☐ Solve 5 Graph/Tree Problems
- ☐ Create Chat Design
- ☐ Mock Interview Round

Week 11

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- Full-Stack Project
- Behavioral Answers
- ☐ Deploy App on AWS
- ☐ Record STAR Responses
- ☐ Explain Architecture

Week 12

- Mock Sprints
- Final Revision
- ☐ 3 Full Mocks
- ☐ 50 Mixed DSA Problems
- ☐ Resume + LinkedIn Review