■ 90-Day Roadmap to Crack 30 LPA+ Backend Developer Role

Weeks 1–2: Strong Foundations

- DSA: Arrays, Strings, Hashing, Two Pointers (20–25 problems).
- Backend: Spring Boot basics (REST APIs, Dependency Injection).
- System Design (LLD): OOP principles, SOLID, Singleton, Factory Pattern.
- Project: Start 'E-commerce Backend' project (User & Auth service).
- Output: Resume draft (highlight existing work).

Weeks 3–4: Core Problem Solving

- DSA: Linked List, Stacks, Queues, Binary Search, Sliding Window (25–30 problems).
- Backend: SQL (Joins, Indexes, Transactions), JPA/Hibernate basics.
- System Design (LLD): Parking Lot, BookMyShow system.
- Project: Add Order service + Database integration to project.
- Output: 1 deployed API on AWS/Heroku.

Weeks 5–6: Advanced Topics

- DSA: Trees & Graphs (DFS, BFS, Topological Sort, Union-Find) (25–30 problems).
- Backend: Kafka (intro + async events), Redis (caching), Exception handling.
- System Design (HLD): CAP theorem, Caching strategies, Rate Limiting.
- Project: Add Payment Service + Kafka-based Order Queue.
- Output: System handles async order creation.

Weeks 7–8: System Design Focus

- DSA: Dynamic Programming (Knapsack, LIS, Matrix DP) (20–25 problems).
- Backend: Concurrency in Java (Threads, Locks, ExecutorService).
- System Design (HLD): URL Shortener, Instagram Feed, WhatsApp Chat Service.
- Project: Deploy complete microservices project on AWS (EC2 + RDS + S3).
- Output: Polished resume + GitHub project link.

Weeks 9–10: Mock & Apply

- DSA: Hard Problems (Graph + DP mix) (15–20 problems).
- Backend: DB Optimization (Query tuning, Indexing), API rate limiting.
- System Design (HLD): Design discussion with peers (mock).
- Behavioral: STAR answers for interviews.
- Applications: Apply to Amazon, Microsoft, Swiggy, Zepto, Razorpay, Meesho, Citadel.
- Output: At least 5–10 active applications.

Weeks 11–12: Interview Grind

- DSA: Daily 2 timed problems (simulate interviews).
- System Design: 1 mock per day (mix HLD + LLD).

- Backend: Revise Spring Boot internals, concurrency, DB transactions.
- Mock Interviews: 2 per week (DSA + Design).
- Applications: Push for referrals, keep 2–3 processes running.
- Output: Confident in both coding & design interviews.

■ Daily Routine Suggestion (6–8 hrs if full-time prep)

- 2 hrs → DSA
- 2 hrs → System Design
- 2 hrs → Backend/Project
- 1 hr → Behavioral + Resume
- (Extra) Mock Interviews / Networking

■ By End of Week 12:

- 100–120 DSA problems mastered.
- 2 solid backend projects (1 deployed).
- Comfortable with LLD & HLD design.
- Polished resume + referrals + applications running.
- Interview-ready for 30 LPA+ backend roles.