

# ARPAN LAYEK

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## TECHNICAL SKILLS

**Programming Languages:** Java, Go, C++, NodeJS, Ruby

**Databases:** MySQL, Redis

**Backend Frameworks:** Spring Boot, Gin, Play

**Frontend Frameworks:** ReactJS, Android

**Tools & Technologies:** Kafka, RabbitMQ, Kubernetes, Docker, Elastic Search

**Core Skills:** Microservices, Distributed Systems, Event-driven Architecture, Data Structures & Algorithms

## EXPERIENCE

### NinjaVan

*Software Engineer 2*

Hyderabad, India

Mar 2024 - Present

- Architected migration of **webhook infrastructure** from Java monolith to **Go-based microservices**, implementing **Kafka-driven event streaming** and improving system scalability by **100×** utilizing concurrent goroutines.
- Designed a **robust retry framework** with exponential backoff (up to 10 retries), achieving **99.9% delivery reliability** and near-zero data loss for mission-critical webhook transmissions.
- Built several core modules for **External Platform Integration** service, onboarding **15+ enterprise shippers** (TikTok, Lazada, Shopee) by normalizing payloads and handling authentication, contributing to a **10% increase in B2B order volume**.
- Developed the **Webhook History service** with automated daily SLA reports and GChat alerts, reducing manual debugging time by **70%** and enhancing incident visibility.
- Optimized throughput using **Kafka pre/post-processing pipelines**, reducing average webhook latency by **50%** under high load conditions.
- Lead **sprint planning and daily standups** for the backend team, while **mentoring junior engineers** on code reviews and system design patterns, directly improving team velocity and code quality.

### Urban Ladder (Reliance Retail)

Bangalore, India

*Software Engineer*

Jul 2022 - Mar 2024

- Implemented the **Promise Engine** using **Spring Boot** and **Redis**, enabling precise delivery predictions and achieving a **2× reduction** in API response time.
- Architected an asynchronous system using **RabbitMQ** to decouple microservices, preventing **500+ daily failures**, and built **ReactJS** dashboards to streamline logistics configurations.
- Designed **Grafana** monitoring dashboards and alerting systems to track inventory SLA mismatches, while maintaining internal tools for warehouse operations.
- Enhanced the logistics **Android application** by integrating bulk image upload features using Retrofit, significantly accelerating the quality check process for warehouse teams.

### Software Development Intern

Dec 2021 - Jul 2022

- Resolved critical **N+1 query bottlenecks** by implementing eager loading, drastically reducing API latency from **45s to 0.45s**.
- Implemented auto-reconnection logic for **Ruby on Rails** background workers (Backburner), eliminating job failures caused by **Beanstalkd** connection drops.

## EDUCATION

### Jalpaiguri Government Engineering College

Jalpaiguri, India

*Bachelor of Technology in Computer Science and Engineering — CGPA: 8.76/10.0*

2018 - 2022

## ACHIEVEMENTS & COMPETITIVE PROGRAMMING

- **Competitive Programming:** Achieved **Expert** rating on Codeforces (Max Rating: 1499) and **4-Star** rating on CodeChef (Max Rating: 2001); solved **550+** algorithmic problems on LeetCode.
- **Contests & Awards:** Selected as a **HackwithInfy Finalist** and secured **3rd Rank** in Code Chronicles.