ADITYA NARAYAN

Software Engineer | Backend Developer
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LeetCode | **LinkedIn** | **GitHub**

Skills

Programming Languages:	Java 17, C++
Frameworks / Libraries:	Spring Boot 3.x, Spring MVC, JPA/Hibernate, Bucket4j
Backend / Architecture:	Microservices, Domain driven design, Distributed Systems, RESTful APIs, Kafka, Rate Limiting, System Design
Observability:	Prometheus, Grafana, Elastic APM, Locust
Databases / Caching:	MySQL, PostgreSQL, Redis, TiDB/Rigel
DevOps / Tools:	Git, Maven, Kubernetes, Helm, CI/CD

Experience

Flipkart | **SDE-1** Jun 2025 – Aug 2026
Assets Engineering Bangalore, India

- Owned backend components of Returns Service migration from a **monolith to domain-driven microservices**, defining **Kafka and TiDB** integration contracts and enabling a **zero-impact user-acceptance rollout**.
- Built a load-test **request-isolation library** with end-to-end **HTTP-to-event-streaming** propagation across **20+ backend services**, preventing performance-test traffic from reaching production consumers and live fulfillment workflows.
- Resolved repeated **Kubernetes OOMKills** blocking performance testing by analyzing **1,000+ JVM thread dumps** and identifying **∼1,100 idle ScheduledThreadPoolExecutor threads** as the root cause; made thread-pool limits configurable, reducing the per-pool cap from **100 to 15**, cutting pod thread count by **76%** (**1,100→265**) and doubling sustained throughput from **75 to 150 QPS**.
- Created an annotation-driven **distributed rate-limiting** library using **Bucket4j** and **Redis**, with shadow-mode rollout and per-warehouse QPS caps on critical API paths.
- Led implementation of an **attribute-based canary-routing** platform across **40+ microservices**, deploying a **JVM agent** on Kubernetes and enabling dynamically configured routing rules for targeted production feature rollouts.

Wipro | **Software Engineer-1** May 2022 – Jun 2025

- Developed a real-time credit scoring platform using **Spring Boot, Kafka, and PostgreSQL**, enabling real-time updates for credit score calculations and improving decision-making speed.
- Designed and implemented **RESTful APIs** for data collection, scoring, and reporting.
- Reduced **PostgreSQL load by 40%** by introducing a **Redis** caching layer for hot read paths on the scoring platform.
- Designed and optimized database queries in **PostgreSQL** for efficient data storage and retrieval.

Projects

IPL Dashboard | **Link** *SpringBoot, React, HSQL*

- Engineered an IPL statistics dashboard offering real-time match data and insights.
- Utilized Spring Boot to establish a robust backend with optimized JPA queries and RESTful APIs.
- Developed a responsive user interface using React, significantly enhancing user interaction.

Post and Comments | **Link** *Springboot, MySQL*

- Developed a backend service for managing posts and nested comments using Java and Spring Boot.
- Implemented RESTful APIs to handle CRUD operations efficiently.
- Demonstrated proficiency in backend development and API design.

Education

PES University Bangalore, India
B.Tech, Electronics and Communications Engineering Aug 2018 – July 2022