

Ayush Katiyar

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SUMMARY

Backend engineer building production-grade Java services with Spring Boot, Spring Security, JPA/Hibernate, Kafka, and Redis on PostgreSQL. Shipped a payment gateway with transactional outbox and idempotent processing, a microservices AI platform on Kubernetes, and a booking backend with pessimistic locking. 2+ years at Netradyne, promoted within 6 months. Targeting SDE-1/SDE-2 Backend roles.

SKILLS

Languages	Java, JavaScript, SQL, Python
Backend	Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate, REST APIs, JWT, Microservices, Spring Cloud (Eureka, Config, Gateway), Kafka
Databases	PostgreSQL, MySQL, Redis
Cloud & DevOps	AWS (EC2, RDS, S3), Docker, Kubernetes, GitHub Actions (CI/CD), Maven, Git
Fundamentals	Data Structures & Algorithms, OOP, System Design
Tools	IntelliJ IDEA, Postman, Jira

PROJECTS

Payment Gateway & Ledger Service (*Razorpay-inspired*)

- Designed a payment lifecycle **state machine** (Created → Captured → Settled/Refunded) with a full transition audit trail.
- Implemented the **Transactional Outbox pattern** for reliable **Kafka** event delivery, avoiding dual-write bugs.
- Built a **Redis-backed idempotency filter** with request locking and response replay to block duplicate charges.
- Built a PCI-inspired card vault with **AES-GCM envelope encryption**, tokenization, and a Redis **Lua** rate limiter.

Distributed AI App-BUILDER Platform (*Lovable-inspired*)

- Designed a microservices platform using **Spring Boot & Spring Cloud** (Eureka, Config, Gateway).
- Integrated **Spring AI + OpenAI** with tool-calling and RAG-style context injection for code generation.
- Used **Kafka** with a Saga pattern & idempotent consumers for cross-service consistency.
- Provisioned live app previews via dynamic **Kubernetes** pod allocation, **MinIO** sync, and **Redis** caching.

Hotel Booking & Dynamic Pricing Backend (*Airbnb-inspired*)

- Built a booking backend with **Spring Boot, Spring Security** (JWT), **PostgreSQL**, and **Stripe** payments.
- Designed a dynamic pricing engine (Decorator pattern) refreshed hourly via a **@Scheduled** job.
- Solved double-booking race conditions using **JPA pessimistic locking** with atomic bulk updates.

EXPERIENCE

Software Engineer Netradyne Technology India Private Limited	Jan 2025 - Present Bengaluru, India
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- Owned backend quality for **Speeding V2 microservices**: built API test suites, performed root-cause analysis across service and data layers, and identified 250+ bugs pre-release.
- Debugged the **Alert Geofence backend module** end-to-end — REST endpoints, DB queries, event flows — reporting 100+ defects to strengthen service reliability.
- Automated API regression workflows, cutting manual effort by 60%.

Associate Software Engineer Netradyne Technology India Private Limited	Jul 2024 - Dec 2024 Bengaluru, India
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- Validated service-layer logic and data integrity across backend REST APIs in multiple environments.
- Promoted to Software Engineer within 6 months** for high-impact contributions to release quality.

EDUCATION

BMS College of Engineering , B.E. in Information Science & Engg.	2020 - 2024	CGPA: 8.73
Mantora Public School (CBSE), XII	2018 - 2019	86%
KDMA International (CBSE), X	2016 - 2017	CGPA: 10