Pulkit

2024 CodeFury hackathon Winner, HSBC INDIA
2026 Hack The Winter National Hackathon, Top 3

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EXPERIENCE

HSBC — Pune, India
Software Engineer — *July 2024 – Present*

- Designed and maintained **distributed microservices** using **Java 8+, Spring Boot, REST**, powering mission-critical financial workflows with strict **low-latency and high-availability SLAs**.
- Integrated an **asynchronous, message-queue–driven** payment processing module with **RBI's Structured Financial Messaging System**, enabling reliable high-volume transaction processing with proactive monitoring and failure detection.
- Translated regulatory and business requirements into automated validations and owned the design of a **full-stack observability dashboard** monitoring **40+ environments and database instances**, enabling proactive alerts and reducing downtime by **40%**.
- Led **incident triage**, **root cause analysis**, and production issue resolution, significantly reducing recurring operational defects (**RCOs reduced by 75%**).
- Implemented **Redis-based caching** and preloading strategies for region/sub-region configuration lookups, eliminating repeated DB calls and significantly reducing request latency with **automatic background workers**.
- Created multi-level **GST–CIBIL** validation microservice ensuring regulatory compliance.
- Managed **quarterly release cycles**, ensuring **zero-downtime deployments** and SLA adherence across distributed services.
- Used **SonarQube and CI pipelines** to maintain code quality and ensure reliable deployments.
- Created a utility to verify downstream system readiness, saving **105 hours/month** with detailed documentation.
- Conducted knowledge transfer sessions for senior developers, receiving recognition for architectural understanding.

PROJECTS

- **SurgePrice** LINK
  Designed a **distributed, event-driven pricing system** leveraging **Spring Boot, Kafka, Redis, and H3** to ingest driver telemetry, maintain geofence state, and compute surge multipliers based on demand and suppy. Optimized for **sub-100ms response** with **30s freshness guarantees** and horizontally scalable architecture under high read/write workloads.

- **Book-IT** LINK
  Built an **enterprise-grade automated meeting room booking system** using **React, Spring Boot, PostgreSQL, and Bucket4j**, implementing **RBAC, credit-based booking economics, JWT security, and pessimistic database locking** to prevent double bookings. Achieved **race-condition–free concurrent access**, automated weekly credit resets via cron jobs, and improved resource utilization and accountability across teams.

- **SnatchMart** LINK
  Design and built a scalable **affiliate-based deals discovery platform** for android/ios using **Flutter, Spring Boot, Kafka, Redis, Docker, and PostgreSQL**, enabling category-wise deal aggregation, coupon discovery, price tracking, and budget-based alerts with backend-driven affiliate click tracking and analytics.

EDUCATION

Vishwakarma Institute of Technology — Pune, India
B.Tech in Electronics and Telecommunication CGPA: 8.03 — *Nov. 2020 – June. 2024*

Kendriya Vidyalaya Gandhi Nagar — Jammu, India
PCMB Percentage: 72% — *Mar. 2019 – May. 2020*

TECHNICAL SKILLS

Programming Languages: Java, C++, SQL (PL/SQL), JavaScript
Frameworks & Libraries: Spring Boot, React.js, Android, Flutter, Kafka, JUnit
Databases & Caching: MySQL, Oracle, PostgreSQL, Redis
DevOps & Tools: Git, GitHub, Jenkins, JIRA, SonarQube, WinSCP, ServiceNow
Concepts: Data Structures & Algorithms, OOP, Operating Systems, DBMS, System Design, Microservices