

SURAJ GAVALI

☎ +91 8408878186 ✉ sgavali.2001@gmail.com 🔗 [linkedin.com/in/suraj-gavali](https://www.linkedin.com/in/suraj-gavali) 🌐 github.com/SurajGavali

PROFILE

Backend Software Engineer with 3 years of experience building scalable, fault-tolerant microservices in Java (8/11/17) using Spring Boot, Docker, and Kubernetes. Delivered high-throughput, low-latency APIs in fintech and eKYC domains. Skilled in CI/CD automation, AKS deployments, and secure data handling using HSMs. Strong focus on observability, test-driven development, and optimizing system performance under production load.

EXPERIENCE

Bajaj Finserv

Pune, IN

Senior Software Engineer

July 2024 – Present

- Modernized legacy Java 8 eKYC monolith by refactoring into modular **Spring Boot** services aligned with bounded contexts; used Spring-managed beans and upgraded to Java 17, reducing CPU usage by 25% under peak load.
- Implemented pod health check-based rollback strategy using **Z-score** anomaly detection and live metrics tracking across **AKS** workloads, cutting production downtime by 40% during failed deployments.
- Built GenAI-based changelog generator for PR metadata and commit diffs; eliminated manual release note writing and improved consistency across **1000+** deployments, reducing documentation time by 80%.
- Led sprint planning and backlog grooming for a 3-member backend team; accelerated delivery of eKYC enhancements and GitHub migration scripts, increasing release **throughput by 20%** over two quarters.
- Resolved 25+ security CVEs by auditing dependency trees, upgrading vulnerable libraries, and implementing auto-scans via CodeQL in CI.
- Spearheaded migration of **1000+** Azure DevOps repos and pipelines to **GitHub Enterprise** across 15 pods (88 developers); automated PR templates, GitHub Actions, and team mappings—completed 2 months ahead of schedule.
- Reduced Docker image size by 50% by switching to distroless/Alpine images and using DockerSlim to eliminate unused layers, improving startup time.
- Integrated SonarQube and **CodeQL** into CI pipelines to enforce static analysis on PRs; reduced post-merge **defects by 30%** and enabled early detection of critical security issues.

Software Engineer

July 2022 – June 2024

- Designed and maintained high-throughput Offer APIs serving **3Cr+** daily requests; optimized document reads via Cosmos DB partitioning and caching to support category-based real-time access.
- Redesigned Cosmos DB document structure for mobile number-based offer retrieval by flattening redundant nested documents and optimizing access patterns; reduced document count by 50% and **saved crores** in storage costs.
- Integrated eKYC APIs with both **NSDL** and **NPCI**, establishing a highly available architecture with fallback support to ensure **99.99%** uptime during peak transaction loads, enhancing reliability for critical financial operations.
- Performed JMeter-based load testing simulating **1Cr+ eKYC requests** under on-prem infrastructure; validated retry behavior and ensured 99.99% uptime during stress scenarios.
- Engineered secure integration with Hardware Security Module (**HSM**) to retrieve 256-bit encryption keys for **200,000+** daily UIDAI-based Aadhaar authentication flows, ensuring data protection.
- Wrote **JUnit + Mockito** test suites covering core services with **85%+** test coverage; enabled reliable regression validation pre-release.

TECHNICAL SKILLS

Languages: Java, SQL, Bash, Python

Frameworks: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, JUnit, Mockito

Databases: MySQL, MS SQL, NoSQL, Firebase

Developer Tools: Git, Docker, Kubernetes, Kafka, Maven, Gradle, Linux, CI/CD, Azure Devops & Cloud

Practices: RESTful API development, Microservices architecture, Agile/Scrum, TDD, BDD

EDUCATION

College Of Engineering, Pune.

Pune, IN

Bachelor's Degree in Computer Engineering

August 2018 – June 2022