

CHANDA SAI PRAKASH

Software Engineer – Java | Spring Boot | Microservices | AWS | Kafka | Redis

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SUMMARY

Software Engineer with around 4 years of experience building scalable, production-grade applications using Java, Spring Boot, React and cloud-native architectures. Strong focus on clean code, testability, and system reliability with experience in microservices, event-driven systems, and CI/CD. Passionate about improving developer productivity, test automation, and delivering high-quality software aligned with business impact.

PROFESSIONAL EXPERIENCE

ACCENTURE – Java Backend Engineer

September 2022 – Present

- Designed and developed microservices handling **100K+ requests/day**, decomposing a legacy monolith into scalable domain-driven services.
- Built event-driven pipelines using Kafka (5M+ events/day) with idempotent consumers, retries, and DLQs, reducing data loss from **~5% to <0.2%**.
- Implemented Saga orchestration to manage distributed workflows and ensure data consistency across services without distributed transactions.
- Reduced API latency from **~800ms to ~500ms** by resolving MySQL N+1 query bottlenecks and optimizing database access.
- Designed Redis cache-aside and read models, reducing response time to **<20ms** and offloading **2K+ requests/min** from the database.
- Improved system resilience using Resilience4j (circuit breaker, retry, bulkhead) to prevent cascading failures under load.
- Secured microservices using Spring Security (JWT, RBAC) and enforced least-privilege access with AWS IAM.
- Containerized and deployed applications using Docker, Kubernetes (EKS), and CI/CD pipelines with **zero-downtime** releases.
- Practiced test-driven development (TDD) with JUnit and Mockito, achieving **85%+ test coverage** across critical workflows.
- Diagnosed production issues using logs, metrics, and tracing (CloudWatch, OpenTelemetry), including resolving JVM memory leaks.

PROJECTS

- Banking System:** Built scalable microservices-based banking platform using Java, Spring Boot, and Kafka, handling high-volume transactions with Saga orchestration and strong data consistency guarantees.
- IoT Platform:** Developed real-time telemetry ingestion system processing high-frequency device data using event-driven architecture, enabling efficient monitoring and analytics.
- Food Ordering System:** Designed and implemented distributed food ordering application with REST APIs, caching, and asynchronous workflows for order processing and improved response latency.

SKILLS

- Languages & Frameworks:** Java 21, Spring Boot, Spring Cloud, Spring Security, React.js
- Architecture & Systems:** Microservices, Event-Driven Architecture, Saga Pattern, REST APIs
- Databases & Messaging:** MySQL, PostgreSQL, MongoDB, Redis, Apache Kafka
- Cloud & DevOps:** AWS (EKS, EC2, S3, IAM, CloudWatch), Docker, Kubernetes, Terraform, CI/CD
- Testing & Tools:** JUnit, Mockito, TDD, Maven, Gradle, Git, Agile Methodologies
- Observability:** Prometheus, Grafana, ELK, OpenTelemetry

CERTIFICATIONS

Microsoft Certified: AZ-400 (DevOps Expert), AZ-104 (Azure Admin), AZ-900 (Fundamentals).

EDUCATION

Malla Reddy Engineering College (Telangana, India)

June 2018 – September 2022

Bachelor of Technology in Electronics and Communication Engineering