

Shashikanth Reddy Kolan

(470) 210-6769 | shashikanthkolan@gmail.com | linkedin.com/in/shashiirk

Summary

Backend-focused software engineer with 4+ years of production experience designing and scaling distributed, event-driven systems on **Java/Spring Boot** and **Kafka**. Proven track record shipping high-availability microservices, hardening security and authentication layers, and cutting deployment and incident-recovery time through automation. Comfortable owning systems end-to-end, from API design to observability, and pairs strong fundamentals with AI-assisted tooling to move faster without sacrificing code quality.

Technical Skills

Languages: Java, Kotlin, JavaScript, TypeScript, Python, Go, SQL, HTML/CSS

Backend & Messaging: Spring Boot, Spring MVC, Spring Security, Node.js, Express.js, RESTful APIs, GraphQL, Microservices, Apache Kafka, RabbitMQ, OpenAPI/Swagger

Frontend: React, Next.js, Angular, Redux, Tailwind CSS

Databases & Caching: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, DynamoDB

Cloud & Infrastructure: AWS (EC2, S3, Lambda, API Gateway, CloudWatch, RDS, SQS, SNS), GCP (Cloud Run, Pub/Sub), Docker, Kubernetes

DevOps & Observability: Jenkins, GitHub Actions, Prometheus, Grafana, ELK Stack, JUnit, Postman

Practices: System Design, API Rate Limiting & Circuit Breakers, OAuth 2.0/JWT, CI/CD, Distributed Systems, Query Optimization

Experience

Software Engineer

March 2024 – Present

Wisdom Square Technologies

Remote

- Built and own core **placement workflow** and **credit pull processing** systems on **Java/Spring Boot** and **Apache Kafka**, powering high-volume, event-driven business operations with end-to-end **audit logging** for compliance.
- Built **Kafka producers and consumers** for event-driven workflows, working with **consumer groups**, **partitions**, **offsets**, and **retry/dead-letter topics** to ensure reliable, ordered message delivery across services.
- Built a **secure file transfer platform** integrating **AWS S3**, **SFTP**, and third-party storage providers, enabling automated cross-platform document exchange for **20+ enterprise clients** with end-to-end audit logging.
- Redesigned the **authentication and authorization layer** using **OAuth 2.0** and **JWT**, enforcing fine-grained role-based access control across **12+ microservices** and eliminating **3 critical security vulnerabilities**.
- Developed a **self-healing retry mechanism** for distributed background jobs using **exponential backoff** and **dead letter queues**, reducing job failure rates by **70%** and improving system fault tolerance.
- Introduced **API rate limiting** and **circuit breaker patterns** across inter-service communication, preventing cascading failures and improving overall system availability to **99.95%** in production.
- Collaborated with DevOps to migrate **legacy deployment scripts** to fully containerized **Kubernetes** workloads, reducing deployment time from **25 minutes to under 5 minutes** and enabling zero-downtime releases.

Software Engineer

August 2022 – February 2024

Alippo

Bangalore, India

- Owned the **Alippo Money** checkout integration for Android and iOS, implementing in-app purchase gateways with server-side receipt validation, increasing checkout completion rate by **22%** and reducing fraudulent transactions by **35%**.
- Neutralized an active **DDoS attack** on a critical payment API by designing and deploying **HMAC-SHA256** request authentication, dropping unauthorized traffic by **80%** and restoring full availability with zero data loss.
- Refactored the **analytics service** into a provider-agnostic event routing layer supporting multiple vendors, improving data fidelity by **30%** and enabling real-time cohort reporting across the platform.
- Optimized high-frequency queries via **index tuning** and query plan analysis, reducing **API response time by 55%** under peak load.
- Added **Redis caching** with **TTL** and invalidation rules for frequently requested data, cutting unnecessary database calls and easing load on high-traffic endpoints.
- Used **MongoDB** for document-oriented data and **Elasticsearch** for search and indexing use cases, extending the platform beyond its core relational datastore.
- Introduced **Kafka-based async processing** for notification dispatch, decoupling the notification service from core checkout flow and improving system resilience during high-traffic periods.

Software Engineer Intern

April 2022 – July 2022

Alippo

Bangalore, India

- Built the **Alippo Money** onboarding UI including activation screen and interactive dashboard, improving first-session purchase conversion by **18%** across Android and iOS.
- Migrated **30+ frontend components** to **TypeScript**, reducing runtime type errors by **45%**, improving code maintainability, and accelerating feature onboarding for new team members joining the codebase.
- Extended the **JHipster** admin dashboard with advanced search, bulk course cloning, and manual order management, reducing internal ops ticket resolution time by **3 hours per week**.

Education

Kennesaw State University

Master of Science, Computer Science

Marietta, United States

August 2024 – May 2026

Anurag Group Of Institutions

Bachelor of Engineering, Information Technology

Hyderabad, India

July 2018 – May 2022