

SHIVAM KUMAR SINGH

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PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in FinTech and banking systems. Strong expertise in Java, Spring Boot, Spring MVC, REST APIs, and Microservices. Hands-on experience in secure backend development including JWT authentication, AES encryption, and Oracle to MySQL database migration. Experienced in maintaining production critical financial systems while delivering compliant, scalable, and secure solutions.

TECHNICAL SKILLS

Backend: Java 8+, Spring Boot, Spring MVC, Spring IoC, Hibernate/JPA, RESTful APIs (JSON/XML), Microservices, Apache Kafka

Frontend: Angular, JSP/JSTL, Thymeleaf, jQuery, JavaScript, HTML5, CSS3

Database & Cloud: MySQL, PostgreSQL, Oracle SQL, H2, AWS (KMS, EC2, S3)

DevOps & Tools: Docker, Jenkins (CI/CD), Ansible, Git, GitHub, Bitbucket, Postman, Jira, Swagger/OpenAPI

Security: Spring Security, Authentication & Authorization, CSRF Protection, AES Encryption, Hashing, JWT, OAuth 2.0

Servers: Apache Tomcat, WebLogic, WildFly

Real-Time Communication: WebSocket

Methodologies & Practices: Agile/Scrum, Production Support, Client Interaction

PROFESSIONAL EXPERIENCE

Software Engineer

Feb 2023 – Present

Financial Software & Systems Pvt. Ltd., Chennai, India

- Worked on production-grade FinTech/banking systems handling transaction reconciliation, GL tally, and financial reporting, ensuring accuracy, compliance, and audit readiness.
- Contributed to the Recon project, automating file extraction and processing across multiple interchanges to enable reliable downstream workflows.
- Led Oracle to MySQL migration, refactoring backend services and integrating AWS KMS, AES-256 encryption and HMAC-SHA256 to strengthen system security.
- Resolved transaction-impacting production issues in live banking environments, ensuring zero downtime and uninterrupted operations.
- Implemented key banking/payment modules: MasterCard SCA exemptions (Brightwell Bank), EMVCo certification (3DS ACS via FIME portal), JWT authentication + Declined Card handling (Visa/MasterCard) for IDFC First Bank, built REST APIs for risk-based assessment/fraud workflows (MDAQ Bank), developed CRUD-based CMS (Spring MVC and Oracle), and collaborated with clients/cross-functional teams to improve delivery and production support efficiency.

KEY PROJECTS

Real-Time Chat Application

GitHub

- Built a full-stack microservices chat system (Spring Boot + Angular) with Eureka, API Gateway, centralized JWT authentication.
- Implemented scalable event-driven messaging using Apache Kafka, ensuring decoupled and fault-tolerant processing.
- Enabled real-time chat user presence using WebSockets (STOMP) with instant delivery.
- Containerized infra (PostgreSQL, Kafka, Zookeeper, services) via Docker Compose and integrated AI chatbot microservice (Kafka + Google Gemini LLM).
- **Technologies:** Java, Spring Boot, Angular, Apache Kafka, Google Gemini (GenAI), Microservices, Docker, PostgreSQL, Spring Security, WebSocket

ACHIEVEMENTS & RECOGNITION

Champion of the Quarter – Q4 2023-2024

Recognized for leading complex initiatives at IDFC First Bank with seamless, high-impact implementations.

Team of the Quarter – Q4 2023-2024

Honored as part of the ACS team for EMVCo (3DS ACS) certification, ensuring global payment compliance.

EDUCATION

Master of Computer Applications (MCA), LNCT University

Nov 2021 – May 2023

CGPA: 8.39

Bhopal, M.P.