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 and banking systems, handling transaction reconciliation, GL tally, and financial reporting to ensure data accuracy and compliance.
- Contributed to the Recon Project, automating extraction and processing of files across multiple interchanges, enabling reliable downstream processing.
- Led Oracle to MySQL database migration, refactoring backend services and integrating AWS KMS with AES-256 encryption and HMAC-SHA256, strengthening system security.
- Resolved transaction-impacting production issues in live banking environments, ensuring zero downtime and uninterrupted operations.
- Implemented MasterCard SCA exemptions for Brightwell Bank, improving authentication user experience while meeting regulatory requirements.
- Supported EMVCo certification (3DS ACS) via the FIME portal, ensuring compliance with international payment standards.
- Designed and implemented JWT-based authentication for IDFC First Bank, enhancing security for digital banking applications.
- Developed Declined Card handling (Visa/MasterCard) for IDFC First Bank, optimizing transaction flow and customer experience.
- Built and maintained RESTful APIs for risk-based assessment systems at MDAQ Bank, supporting fraud detection workflows.
- Developed backend modules including a CRUD-based Customer Management System using Spring MVC and Oracle.
- Collaborated with cross-functional teams and clients to improve delivery quality and production support efficiency.

KEY PROJECTS

Real-Time Chat Application   GitHub

- Architected a full-stack microservices system using Spring Boot and Angular, featuring Service Discovery (Eureka), API Gateway, and centralized JWT authentication.
- Engineered an event-driven messaging pipeline using Apache Kafka to decouple message processing from delivery, ensuring scalability and fault tolerance.
- Implemented bi-directional real-time communication using WebSockets (STOMP), enabling instant message delivery and live user status updates.
- Containerized the entire infrastructure (PostgreSQL, Kafka, Zookeeper, Microservices) using Docker Compose for consistent cross-environment deployment.
- Designed a responsive frontend with Angular Material, integrating dynamic features like user search and secure route guards.
- **Technologies:** Java, Spring Boot, Angular, Apache Kafka, 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.