

SHREYAS MEDADE

Senior Java Developer | Backend & Fintech Systems
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PROFESSIONAL SUMMARY

Senior Java Developer with ~4 years building production-grade backend systems in fintech and transit. Core contributor to SBI's national Transit Prepaid Card platform — processing millions of daily transactions across metro networks, AIIMS hospitals, and retail in 7+ Indian cities. Deep expertise in Spring Boot microservices, HSM-based security, and high-throughput API design; known for owning features end-to-end and resolving critical production incidents under pressure.

TECHNICAL SKILLS

Languages & Frameworks: Java 8/11/17, Spring Boot, Spring MVC, Spring Security, Spring Batch, Kafka, Hibernate, J2EE, React.js, Nginx, Dynatrace

Security: HSM Integration, PGP, AES-256, RSA, TLS/SSL, Secure API Design

Databases: Oracle, MS SQL Server, SQL query optimisation, large-dataset management

Tools & Platforms: Git, Gitlab, WSO2, ELK Stack, Apache Tomcat (CLI deployments), JUnit, Maven

Architecture: Microservices, REST APIs, Asynchronous processing, Multithreading, Distributed Systems, Server Management, API Gateways

PROFESSIONAL EXPERIENCE

Senior Software Engineer — Paycraft Solutions, Mumbai

Mar 2024 – Present

Worked on two large-scale fintech and transit systems (SBI India & Dubai RTA), handling high-volume transaction processing and secure integrations.

Client: State Bank of India (SBI) — Prepaid Card Management System

SBI's flagship digital payments platform enabling tap-and-pay, QR, and online transactions across metro stations (Mumbai, Pune, Chennai, Noida, Nagpur, Kanpur, Himachal), AIIMS hospitals (Mumbai, Delhi, Jammu, Manglagiri), and retail. Built on Java 17 microservices with Spring Boot, the system handles multi-sector prepaid card operations at national scale.

- Designed and delivered 40+ REST APIs for high-volume transit and banking transactions, supporting peak loads across 7 cities with ~300–500 ms average response time.
- Integrated HSM (Hardware Security Module) to secure card key management and transaction signing — eliminating a critical vulnerability in the payment flow.
- Engineered end-to-end encryption (PGP, AES-256, RSA) across vendor and banking integrations, ensuring secure data transmission across all integrations.
- Led QR-based payment module from design to production, coordinating directly with NPCI for compliance and integration — now live across all metro stations, enabling contactless digital onboarding for commuters.
- Developed, maintained & resolved bugs in frontend React application.
- Designed and implemented API-level rate limiting, throttling & alerts with dynamic, database-driven configurations, ensuring controlled traffic handling and protecting high-volume services from overload.
- Designed and implemented an asynchronous Bulk SMS pipeline using Spring Batch and multithreading, leveraging caching for faster processing and Dynatrace for real-time observability, achieving ~3× throughput improvement over the legacy synchronous system.
- Reduced average API response time by 20–30% through targeted SQL query optimisation, index tuning with the help of DBAs and by optimizing the codebase.
- Implemented TLS/SSL mutual authentication across all microservice-to-microservice and vendor integrations.
- Served as a Mentor & Git approver for the team; conducted 70+ technical interviews including CDAC interviews - contributing to backend team growth for the company.
- Owned production incident resolution in high-availability systems, performing root cause analysis and delivering rapid fixes for critical outages.

Client: Dubai RTA — Road and Transport Authority

- Designed and delivered 15+ REST APIs for Dubai RTA's Transit Card Management system, collaborating directly with international UI teams across time zones to ensure seamless frontend-backend integration.
- Optimised Kafka topic configurations for bulk order processing, reducing average message processing time by ~20% for high-volume card operations.
- Held co-ownership of the Corporate Portal module — led feature development and bug resolution across 3+ sprint cycles, consistently delivering within timeline in a cross-functional team environment.
- Secured inter-service communication via TLS mutual authentication and hardened the API layer by integrating a middleware API gateway and Nginx, aligning with RTA's transit security requirements.
- Built a bulk card purchase workflow with real-time delivery tracking and host balance management, prioritising processing speed and operator usability.

Java Developer — Clayfin Technologies, Chennai

May 2023 – Sep 2023

Multi-Bank Financial Management System -

- Led end-to-end API development using Spring Boot and Java 8, delivering 10+ features with full compliance to documentation and security standards.
- Replaced two premium third-party API subscriptions with in-house integrations, reducing vendor costs and improving data ownership.
- Optimised existing codebases, cutting average response time on key endpoints by ~15% through profiling and query restructuring.
- Worked extensively with MS SQL and Oracle; introduced ELK Stack for centralised log aggregation, reducing time-to-debug from hours to minutes.
- Worked with WSO2 API Gateway for API management, routing, security, and integration, supporting reliable communication between enterprise applications and services.

Software Developer Intern — Prospecta Technologies

Feb 2023 – May 2023

- Built and optimised Spring Batch jobs for Master Data Online — a bulk data processing system handling 500K+ records per run with validation and transformation pipelines.
- Improved batch job execution reliability, reducing failed-run rate from ~12% to under 2% through error handling and retry logic.

Full Stack Development Intern — Masai School

Feb 2022 – Jan 2023

- Completed an intensive full-stack programme (Java backend + React.js frontend); built 5 end-to-end projects covering RESTful APIs, Hibernate ORM, and database design.
- Strengthened DSA fundamentals through 200+ coding exercises; contributed to team projects simulating production-grade development workflows.

EDUCATION & TRAINING

Full Stack Java Development Program

Masai School

Apr 2022 – Nov 2022

Bachelor of Computer Applications (BCA)

MGVIMT

Jul 2020 – June 2023