

KISHAN KUMAR PANDEY

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SUMMARY

Backend-focused Software Engineer with 3+ years delivering mission-critical financial platforms in regulated environments, contributing across the end-to-end delivery lifecycle within iterative team-based workflows. Strong experience supporting transaction-intensive systems, improving data throughput, reliability, and scalability, while ensuring enterprise-grade risk controls and audit readiness. Recognized for production ownership, operational excellence, and driving measurable improvements in system stability and turnaround time.

TECHNICAL SKILLS

Languages & Frameworks: Java 8+, Spring Boot, Spring MVC, Spring Security, Hibernate / JPA, RESTful APIs, Microservices

Databases: Oracle, MySQL, SQL performance tuning, H2

Cloud & DevOps: AWS (EC2, S3), Docker, Jenkins CI/CD, Maven, Ansible, Git

Security & Auth: OAuth2, JWT, AES encryption, Authentication & Authorization, CSRF protection

Integration & Messaging: SOAP, XML/XSLT, JMS, JSON, API design (OpenAPI/Swagger)

Testing & Observability: JUnit, Postman, Log4j, Splunk / structured logging, Monitoring

WORK EXPERIENCE

Software Engineer

Feb 2023 – Present

Financial Software and Systems Pvt. Ltd. (FSS), Chennai

- Designed, developed, and scaled backend services supporting **10K+ daily transactions** with **99.5% uptime**, powering critical banking workflows such as Nominee Registration, ASBA, Fund Transfer, and Payee Management.
- Owned end-to-end delivery of a zero-downtime database migration from Oracle to MySQL for a production system with **2M+ customer records**, optimizing **500+ queries** and achieving a **40% performance improvement**.
- Implemented robust application-level security mechanisms including encryption, token-based authentication, CSRF protection, and mobile app attestation, ensuring compliance with **PCI-DSS and ISO 27001** standards.
- Optimized backend API execution paths and data access patterns, resulting in **30% faster response times** and improved reliability for web and mobile banking channels.
- Built and maintained integrations with **15+ legacy and third-party systems** using XML/XSLT and SOAP/HTTP interfaces, addressing data transformation, validation, and consistency challenges.
- Developed automated CI/CD pipelines to streamline build, test, and deployment workflows, improving release velocity by **50%** and reducing production deployment failures.
- Acted as a service owner for production systems, resolving **50+ high-severity incidents** through structured log analysis and root-cause investigation, reducing **MTTR by 35%**.
- Contributed to cloud modernization efforts by assisting in migration of legacy workloads to cloud infrastructure, improving system scalability, fault tolerance, and operational resilience.
- Participated in design discussions and code reviews, collaborating with cross-functional teams to ensure maintainable architectures, backward compatibility, and safe feature rollouts.
- Mentored junior team members during onboarding by reviewing code, sharing best practices, and assisting with debugging and production issue resolution.
- Optimized data access via indexing, query rewrite, and connection-pool tuning to reduce p95 latency and increase throughput.

PROJECTS

Enterprise Banking Integration Platform – FSS Production System

- Designed a scalable integration layer enabling communication between 15+ independent systems, handling high-throughput transactional workloads.
- Built configurable rule-based engines and schedulers to support extensible business logic without code changes, reducing operational overhead.
- Improved automation and reduced manual workflows by 75% through batch processing and approval-driven pipelines.

Bank Account Management API – Personal Project

GitHub

- Designed a production-grade backend service following clean architecture principles and REST best practices
- Implemented validation, error handling, logging, and test coverage to ensure API reliability and maintainability
- Documented APIs using OpenAPI to support easy onboarding and client integration

EDUCATION

Master of Computer Applications (MCA)

2021 – 2023

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar.

CGPA: 8.36/10.0

Bachelor of Computer Applications (BCA)

2018 – 2021

G.J College Rambhag Bihta, Patna University

Percentage: 73.6/100

ACHIEVEMENTS & RECOGNITION

Employee of the Quarter (Q1 & Q3 2024) – Recognized for outstanding contributions in security enhancements and vulnerability.

Production Excellence – Led critical database migration and security compliance initiatives with zero-downtime deployments.