

# Harshal Kudale

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## Profile

Software Engineer III with over 3 years of experience in designing and implementing secure, scalable financial technology solutions. Specialized in Java/Spring Boot and Microservices architecture. Proven expertise in financial operations, having led the migration of 150k+ invoices and architected cross-service reconciliation workflows. Adept at driving CI/CD automation and troubleshooting complex production issues (RCA).

## Technical Skills

- Languages:** Java, JavaScript (ES6+), SQL.
- Backend & Systems:** Spring Boot, Microservices, REST APIs, JMX (Background Tasks/Hosted Services), Hibernate.
- Frontend:** React JS, Next.js, Module Federation, Context API.
- Messaging & DB:** RabbitMQ (Asynchronous Processing/DLQs), MySQL, MongoDB (NoSQL).
- DevOps & Tools:** Docker, Jenkins (CI / CD), Kibana, Maven, Git (version-control), Linux/Unix.

## Professional Experience

- Software Engineer - Full Stack** Pune, IN  
([Mediaocean Asia Pvt. Ltd.](#)) July 2022 - present
- Financial Data Engineering: Engineered an asynchronous JMX-based workflow to migrate 150,000+ financial invoice records from SQL to MongoDB; utilized RabbitMQ with Dead Letter Queues (DLQ) to ensure 100% data consistency and transactional integrity.
  - Microservices Architecture: Designed and implemented multiple high-performance REST APIs across microservices, utilizing Feign clients with automated security header injection for secure inter-service communication.
  - System Resiliency: Led Root Cause Analysis (RCA) for critical production issues, implementing fixes that improved system stability and uptime for adtech financial operations.
  - Complex UI Orchestration: Architected a Next.js host module using Module Federation to integrate disparate React and Knockout.js modules, improving frontend scalability and deployment speed.
  - Infrastructure & CI/CD: Upgraded enterprise microservices to Java 17 and automated Jenkins pipelines for auto-branching and dependency locking, reducing manual deployment efforts by 40%.
  - Leadership & Design: Led the technical design of a cross-service reconciliation engine to handle invoice rejection and state reversion across multiple distributed databases.

## Key Projects

### NoMoreEdge

([Open-source Windows Utility](#))

- Developed a system level windows utility to override Microsoft default browser settings for embedded links.
- Achieved 19,000+ downloads on GitHub by providing a zero-footprint solution utilizing Image File Execution Options (IFEO) settings.

## Education

- B.E. Computer Science** Pune, IN  
([Pune University \(SPPU\)](#)) 2018-2022

- CGPA: 9.33 / 10.0
- Lead multiple technical activities and events during university tenure.

## Languages

English - Hindi - Marathi