

Vrushank Patel

Senior Software Developer

+91 9601501725 | vrushankpatel5@gmail.com | [Github](#) | [LinkedIn](#) | [CodereRank](#) | Bangalore, IN

EXPERIENCE (5+ YEARS)

NASDAQ Nov 2022 – Present | Bangalore - IN

Senior Software Developer

- **High Performance Trading Systems:** Developed and optimized customer tailored solutions for the Multi Matching Engine (MME) - a lightning fast orders matching and execution engine) using Java, Spring framework, and reactive patterns, to enable automatic trade execution for 10M+ daily transactions across forex, equities, and crypto markets.
- **Cloud-Native Deployment:** Containerized services with Docker and orchestrated deployments on Amazon EKS, reducing infrastructure costs and improving system uptime.
- **CI/CD Automation:** Contributed to migration from Teamcity and wrote GitLab CI/CD pipelines for artifact publishing, vulnerability scanning (Prisma, SonarQube, Sonatype), and deployment, reducing build time.
- **Infrastructure-as-Code:** Customized the Operations framework called MOE (MME Operating Environments) to streamline Amazon EKS and EKS Anywhere deployments, designing partitioned Helm layouts resulting in a significant reduction in deployment setup time for a LATAM customer.
- **Customer Adaptations:** Delivered 15+ product adaptations and customizations for 3+ customers across LATAM, US and EU to deliver tailored solutions addressing unique requirements, including leading onsite acceptance testing from dev side in Colombia for a equity trading platform handling \$500M+ daily volume.
- **Security & Testing:**
 - Patched 50+ vulnerabilities in dependencies, reducing Sonatype threat score from 9→1.5, enhancing supply chain security.
 - Identified and resolved compatibility issues in unit testing frameworks that revamped 2500+ JUnit/Mockito test cases, achieving 90%+ code coverage.
 - Designed checkstyles and established coding conventions to ensure high-quality code standards.
- **AI-Driven Efficiency:** Utilized GitHub Copilot to draft technical documentation (Javadocs, Confluence pages) and boilerplate code (DTOs, repetitive logic), and conducted a proof of concept (PoC) on Diffblue to automate generating unit tests, increasing code coverage significantly and enhancing code reliability.
- **Streamline workflows:** Administered tools like TaskTop integration, repository access management, and CI/CD pipeline automation for seamless builds and deployments.

Capsystematic Technologies Pvt Ltd. Dec 2019 – Nov 2022 | Bangalore - IN

Software Developer

- **Core Development:** Engineered and modernized capital markets and payment software for banks and financial institutions by leveraging a comprehensive technology stack—Java, Spring Boot, Python Flask, Docker, Apache Camel, CXF, Informix, Orika, and MapStruct—to deliver scalable, secure, and high-performance solutions.
- **Zeus-GPI (General process interface):** A business integration middleware to connect front office with core system, typically processes ISO 20022 message by SOAP and REST APIs and services for seamless integration across different channels.
- Developed SOAP and REST APIs using Java, Spring Boot, and Apache Camel to route Interbank financial telecommunication (e.g., Swift MT/MX, ISO 20022) between diverse endpoints like databases, message queues, HTTP, SOAP, and SMB filesystems that enabled seamless integration for investment banking customers to significantly reduce message delivery latency.
- **CMS (Card Management System):** A payment technology built on the BASE24 engine to acquire, authenticate, route, switch, and authorize credit, debit, and forex transactions.
- Migrated legacy Pro*C (circa 1993) code to a modern Java-based architecture using Spring Boot, JPA and Security, improving scalability and maintainability.
- Developed RESTful APIs enabling transaction reconciliation, settlement, dispute management, and corporate card services for acquirers and issuers.
- **CapSuite:** Designed and implemented an automation tool that generates code for entities and mappings based on SQL procedures and Swift MT/MX message definitions, significantly improving developer efficiency.

Capsystematic Technologies Pvt Ltd. Sept 2019 – Dec 2019 | Bangalore - IN

SDE Intern

- Developed Apache Camel message routes, gained investment banking exposure.

SKILLS

Programming Languages:	Java, Python, SQL
Frameworks & Libraries:	Spring Boot (Web, JPA, Security), FastAPI, JUnit, Mockito
Messaging:	Apache Kafka
CI/CD:	Docker, GitLab CI/CD
Cloud technology:	AWS (S3, EC2, RDS, Lambda, IAM, Amazon EKS, Amazon ECR)
AI for productivity:	GitHub Copilot, Diffblue Cover

EDUCATION

Apollo Institute of Engineering (Gujarat technological university) Jul 2015- May 2019 | Ahmedabad - IN

B.E. – Information Technology (CGPA = 8.24)

PROJECTS

