

# Vrushank Patel

Senior Software Developer

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Experience (5+ years)

NASDAQ

Nov 2022 – Present

Senior Software Developer

Bangalore - IN

- **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 Kubernetes/ 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

Software Developer

Bangalore - IN

- 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

SDE Intern

Bangalore - IN

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

## Skills

**Programming language:** Java, Python, SQL

**Libraries/Frameworks:** SpringBoot, Hibernate, Flask, Apache Camel, JUnit/Mockito

**Databases:** MySQL, Informix

**Cloud, DevOps and CI/CD:** Docker, Kubernetes, GitLab CI/CD, TeamCity

**Distributed Systems:** Apache Kafka, Reactive Microservices, REST/gRPC APIs

**Other Tools:** MapStruct, Orika, GitHub Copilot, Diffblue Cover

## Education

Apollo Institute of Engineering (Gujarat technological university)

Jul 2015- May 2019

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

Ahmedabad - IN

## Projects

[Marketron](#), [Maxine](#), [Complexica](#), [Quortex](#), [More](#).