

# VRUSHANK PATEL

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## SUMMARY

Software developer with 5+ years of experience, specialized in high performance trading systems, capital markets, and payment platforms. Skilled in Java, Python, Apache Kafka, Reactive programming, and cloud-native technologies. Certified Scrum Product Owner (CSPO), focusing on agile development and modernization.

## EXPERIENCE (5+ years)

NASDAQ	Nov 2022 – PRESENT
Senior Software Developer	Bangalore - IN
<ul style="list-style-type: none"><li><b>High Performance Trading Systems:</b> Developed and optimized for the components of the <b>Multi Matching Engine (MME - a high performance trading engine)</b> using Java, Spring framework, and reactive patterns, to enable automatic trade execution for 10M+ daily transactions across forex, equities, and crypto markets.</li><li><b>Cloud-Native Deployment:</b> Containerized services with Docker and orchestrated deployments on Kubernetes/Amazon EKS, reducing infrastructure costs and improving system uptime.</li><li><b>CI/CD Automation:</b> Contributed to migration from Teamcity and wrote GitLab CI/CD pipelines for artifact publishing, vulnerability scanning (Prisma, SonarQube, Sonatype), and deployment, reducing build time.</li><li><b>Infrastructure-as-Code:</b> Customized the Operations framework called MOE (MME Operating Environments) for customer-specific Amazon EKS deployments, designing partitioned Helm layouts that significantly reduced deployment setup time for LATAM client onboarding.</li><li><b>Customer Adaptations:</b> Delivered 15+ adaptations and customizations (CRs) 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.</li><li><b>Security &amp; Testing:</b><ul style="list-style-type: none"><li>Patched 50+ vulnerabilities in dependencies, reducing Sonatype threat scores from 9 → 1.5, enhancing supply chain security.</li><li>Identified and resolved compatibility issues in unit testing frameworks that revamped 2,500+ JUnit/Mockito test cases, achieving 90%+ code coverage.</li><li>Designed checkstyles and established coding conventions to ensure high-quality code standards.</li></ul></li><li><b>AI-Driven Efficiency:</b> Utilized <b>GitHub Copilot</b> to draft technical documentation (Javadocs, Confluence pages) and boilerplate code (DTOs, repetitive logic), and generated 350+ unit tests with <b>Diffblue Cover</b>, increasing code coverage significantly and enhancing code reliability.</li><li><b>Streamline workflows:</b> Administered tools like TaskTop integration, repository access management, and CI/CD pipeline automation for seamless builds and deployments.</li></ul>	

Capsystematic Technologies Pvt Ltd.	Dec 2019 – Nov 2022
Software Developer	Bangalore - IN
<ul style="list-style-type: none"><li>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.</li><li><b>Zeus-GPI</b> (General process interface for ISO 20022) - A financial message processing middleware.<ul style="list-style-type: none"><li>Developed SOAP and REST APIs using Java, Spring Boot, and Apache Camel to route financial messages (e.g., Swift MT/MX, ISO 20022) between diverse endpoints like databases, message queues, HTTP, SOAP, and SMB filesystems.</li><li>Enabled seamless integration for 5+ investment banking customers by designing solutions on top of enterprise service bus (ESB) that significantly reduced message delivery latency.</li></ul></li><li><b>CMS</b> (Card Management System) - A payment software built on top of BASE24 engine that manages the entire lifecycle of debit, credit, prepaid, and other smart cards.<ul style="list-style-type: none"><li>Migrated legacy Pro*C code (circa 1993) to a modern Java-based architecture using Spring Boot and Spring Cloud.</li><li>Built RESTful APIs for corporate card payments, serving 5+ banks and payment processors with back-office functionalities like transaction reconciliation.</li></ul></li><li><b>CapSuite</b> - 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.</li></ul>	

Capsystematic Technologies Pvt Ltd.	Sept 2019 – Dec 2019
SDE Intern	Bangalore - IN
<ul style="list-style-type: none"><li>Developed Apache Camel-based message routing, gained investment banking exposure, and built an <a href="#">Employee attendance management system</a> using Java &amp; MySQL.</li></ul>	

## SKILLS

**Programming language:** Java, Python, SQL  
**Libraries/Frameworks:** SpringBoot, Flask, Hibernate, Apache Camel, Orika, Mapstruct, JUnit/Mockito  
**Databases:** MySQL, Informix, Etc  
**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](#).