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

- **High Performance Trading Systems:** Developed and optimized for the components of the **Multi Matching Engine (MME - a high performance trading 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) for customer-specific Amazon EKS deployments, designing partitioned Helm layouts that significantly reduced deployment setup time for LATAM client onboarding.
- **Customer Adaptations:** 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.
- **Security & Testing:**
  - Patched 50+ vulnerabilities in dependencies, reducing Sonatype threat scores from 9 → 1.5, enhancing supply chain security.
  - Identified and resolved compatibility issues in unit testing frameworks that revamped 2,500+ 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 generated 350+ unit tests with **Diffblue Cover**, 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 for ISO 20022) - A financial message processing middleware.
  - 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.
  - Enabled seamless integration for 5+ investment banking customers by designing solutions on top of enterprise service bus (ESB) that significantly reduced message delivery latency.
- **CMS** (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.
  - Migrated legacy Pro*C code (circa 1993) to a modern Java-based architecture using Spring Boot and Spring Cloud.
  - Built RESTful APIs for corporate card payments, serving 5+ banks and payment processors with back-office functionalities like transaction reconciliation.
- **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-based message routing, gained investment banking exposure, and built an Employee attendance management system using Java & MySQL.

SKILLS

Programming language: Java, Python, SQL
Libraries/Frameworks: SpringBoot, Flask, Hibernate, Apache Camel, Orika, Mapstruct, JUnit/Mockito
Databases: MySQL, Informix, Etcd
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.