Vrushank Patel

Senior Software Developer

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EXPERIENCE (5+ YEARS)

NASDAQ   Nov 2022 – Present │ Bangalore - IN
Senior Software Developer

- **Eqlipse Trading:** Developed and optimized solutions for Multi Matching Engine, a high-speed order matching and execution system, using Java and Spring Framework. Delivered 15+ customizations for 3+ customers (Forex, Equities, and Crypto) across LATAM, US, and EU, including onsite acceptance testing in Colombia for an equity trading platform handling $500M+ daily volume.
- **Cloud-Native Deployment:** Containerized services with Docker/Podman and orchestrated deployments on Amazon EKS, improving system uptime and reducing infrastructure costs through better resource utilization.
- **Infrastructure-as-Code:** Built and Customized a framework acting as a kubernetes operator to streamline Amazon EKS and EKS-A deployments, designing partitioned Helm layouts resulting in a significant reduction in deployment setup time for a LATAM customer.
- **CI/CD Automation:** Contributed to CI/CD migration from TeamCity to GitLab by writing pipelines to build and test code, publish artifacts, vulnerability scans (Prisma, SonarQube, Sonatype) and code signing.
- **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.
- **AI-Driven Development & Workflow Automation:** Leveraged GitHub Copilot for generating boilerplate code (DTOs, repetitive logic) and drafting technical documentation (Javadocs, Confluence). Led a proof of concept using Diffblue to auto-generate unit tests, improving coverage and reliability.

Capsystematic Technologies Pvt Ltd.   Dec 2019 – Nov 2022 │ Bangalore - IN
Software Developer

- **Capital Markets & Payments Development::** Modernized software systems for banks and financial institutions using Java, Spring Boot, Docker, Apache Camel, Informix, Orika, and MapStruct to deliver secure, scalable, and high-performance applications.
- **Zeus-GPI (General process interface):** Designed and implemented Apache Camel RouteBuilders to process and route SWIFT MT/MX and ISO 20022 messages across various endpoints (DB, filesystem, HTTP, SOAP, MQ). Enabled seamless integration between front-office and core banking systems, significantly reducing message delivery latency.
- **CMS (Card Management System):** Migrated legacy Pro*C (1993) codebase to a modular Java-based architecture using Spring Boot, JPA, and Spring Security. Delivered RESTful APIs for transaction reconciliation, settlement, dispute management, and corporate card features, enhancing maintainability and scalability for issuer/acquirer systems.
- **CapSuite:** Built an internal automation tool using python and FastAPI to generate Java entities and mappings from SQL procedures and SWIFT message definitions (MT/MX). Improved developer productivity and reduced manual efforts and errors while mapping the fields during developments.

Capsystematic Technologies Pvt Ltd.   Sept 2019 – Dec 2019 │ Bangalore - IN
SDE Intern

- Built foundational knowledge of Apache Camel by studying existing routes and developing tests to enhance coverage and reliability.
- Implemented new Camel routes for a customer project under mentorship, contributing to middleware workflows for SWIFT/ISO 20022 message processing.

SKILLS

Programming Languages:	Java, Python
Frameworks & Libraries:	Spring Boot, FastAPI, JUnit, Mockito, Jackson (JSON), JAXB (XML)
DB & Streaming:	PostgreSQL, Apache Kafka
Cloud & DevOps:	AWS (EC2, S3, RDS, Lambda, IAM, EKS, ECR), Docker, GitLab CI/CD
Collaboration & Tools:	JIRA, Confluence
AI-Powered Tools:	GitHub Copilot, Diffblue Cover
Operating Systems:	Linux (Ubuntu, Amazon Linux), macOS

EDUCATION

Apollo Institute of Engineering (Gujarat technological university)   Jul 2015- May 2019 │ Ahmedabad - IN
B.E. – Information Technology (CGPA = 8.24)

PROJECTS

APEX   BlueLink   Marketron   Maxine   Complexica   iBoard   Weathermon   More