

# Viraj Patel

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## PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in building distributed systems by bridging front-end technologies (JavaScript, React) with back-end frameworks (Java, Spring Boot, Node.js). Skilled in designing RESTful APIs and microservices integrated with relational and NoSQL databases (MySQL, MongoDB, Redis, Cassandra), and deploying resilient, cloud-native solutions on AWS. Experienced in implementing DevOps practices using Docker, Jenkins, and CI/CD pipelines, and collaborating in Agile environments to deliver maintainable, high-performance solutions focused on user experience, operational efficiency, and measurable business outcomes.

## WORK EXPERIENCE

### HCL Tech

USA

#### Software Engineer

Aug 2024 - Present

- Developed a microservices-based fraud detection system using Java, Spring Boot, and MySQL, building RESTful APIs to handle transaction logging and reconciliation, improving data integrity by 40% across monthly releases.
- Integrated LLMs with RAG (Retrieval-Augmented Generation) and built event-driven processing using Apache Kafka to analyze transactional patterns in real-time, improving fraud detection precision and reducing false positives by 22%.
- Orchestrated CI/CD pipelines using Docker to deploy microservices on AWS EC2, S3, Lambda, API Gateway, and RDS, enabling blue-green deployments, reducing downtime-related revenue loss, and decreasing query latency by 30%.
- Implemented Redis caching in Spring Boot services to reduce load on MySQL, offloading 70% of repetitive database queries and improving system scalability by lowering average response times by 35% during peak traffic.
- Directed test automation using JUnit, Mockito, and Jenkins pipelines, reducing production bugs by 35% and improving release stability through consistent integration and quality assurance.

### Oracle

India

#### Software Engineer Intern

Jan 2023 - Jul 2023

- Engineered a microservices-based transaction management module using Java, Spring Boot, and Hibernate ORM, enabling automated validation of transactional records and reducing manual reconciliation effort by 40%.
- Created RESTful APIs for transaction processing workflows, integrating Spring Security and JWT authentication to ensure secure access, supporting seamless user experiences across internal platforms.
- Optimized data access layers using Hibernate ORM, JPA criteria queries, and Redis caching, reducing query execution time from 7 seconds down to 3 seconds in high-volume transaction reporting modules.
- Deployed backend services on AWS EC2 with RDS for PostgreSQL, configuring monitoring and alerting via CloudWatch, resulting in a 15% improvement in system availability and reduced downtime for production transaction systems.
- Developed a centralized payment processing module with transaction retry and status tracking mechanisms, integrating with internal services via REST APIs, which improved reliability and reduced failed transactions by 30%.

### Mindtree

India

#### Software Engineer

Jan 2021 - Dec 2022

- Designed a microservices-based retail system using the MERN stack (MongoDB, Express.js, React, Node.js), containerized with Docker and deployed on AWS ECS, achieving 99.9% uptime and enabling seamless scalability for production workloads.
- Crafted UI components for a retail operations dashboard using React and Angular, optimizing rendering with efficient data structures to streamline interactions, increasing customer retention and engagement by 25%.
- Built asynchronous data pipelines within the inventory engine using Apache Kafka and RabbitMQ, improving message throughput by 40% and reducing system response time by 30%.
- Implemented event-driven workflows using AWS Lambda and SQS to handle inventory and order events, decouple microservices, and enhance maintainability and responsiveness during peak loads.
- Collaborated with 5+ cross-functional teams across the SDLC, utilizing JIRA for Agile sprint management to deliver product features ahead of schedule.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript (ES6), TypeScript, SQL, C, C++, C#, GO, Shell Scripting

**Web Technologies:** HTML5, CSS3, Bootstrap, jQuery, AJAX, JSP, Servlets, JSTL, JSON, XML, REST API, GraphQL

**Frameworks :** Spring Framework (Spring Boot, Spring MVC), Hibernate, Microservices, React.js, Vue.js, Node.js, Express.js

**Cloud:** AWS (ECS, Lambda, S3, DynamoDB, SQS, SNS, Cloudformation), Microsoft Azure, Google Cloud Platform (GCP)

**Database & Data Management:** MongoDB, MySQL, PostgreSQL, Redis, Cassandra, Oracle, JDBC, SQL Server, Snowflake

**DevOps & Version Control:** Docker, Jenkins, Maven, Git, GitHub, GitLab, Kubernetes

**Methodologies:** SDLC, Agile/Scrum, Waterfall, Test-Driven Development (TDD)

**Development Tools:** Visual Studio Code, IntelliJ, Eclipse, Salesforce, Postman, JIRA, Confluence

## EDUCATION

### Syracuse University

Syracuse, USA

Master of Science in Computer Science

Aug 2023 - May 2025

### Nirma University

Ahmedabad, India

Bachelor of Technology in Computer Science

Aug 2019 - Jun 2023