# Vraj Shah

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## Professional Summary

Experienced Software Engineer with over 2 years in developing scalable cloud applications using Java, Kotlin, Spring Boot, and microservices. Skilled in RESTful API development, AWS, Kubernetes, Docker, and CI/CD automation. Strong understanding of secure coding practices (OAuth, JWT) and infrastructure as code (CloudFormation). Adept at frontend development with React.js and Vue.js, ensuring seamless user experiences. Passionate about building efficient, secure, and high-performance software solutions in cloud environments.

## Technical Skills

**Programming Languages**: Java, Kotlin, Python, Go, TypeScript, JavaScript, SQL, PHP

**Backend & Microservices**: Spring Boot, RESTful APIs, Microservices, Node.js, Apollo GraphQL (familiar)

**Frontend Development**: React.js, Vue.js, HTML5, CSS3, TailwindCSS, Web standards (AJAX, JSON)

**Cloud & DevOps**: AWS, GCP, Docker, Kubernetes, CI/CD (GitHub Actions, GitLab CI)

**Security & Automation**: OAuth, JWT, Secure coding practices (OWASP Top 10), Static & Dynamic Code Analysis (SonarQube, Snyk), Infrastructure as Code (IaC), Automated security testing.

**Databases**: MySQL, PostgreSQL, Firebase Firestore, MS SQL Server

**Software Development Practices**: Agile, Clean code, Test-Driven Development (TDD), GitHub workflows

**Soft skills**: Strong communication, Problem-solving, Teamwork and collaboration, Adaptability, Attention to detail, Self-starter, Time management, Ability to learn continuously

## Work Experience

**Simform Solutions** **Dec 2021 - Nov 2023**

*Software Engineer* *Ahmedabad, India*

- Developed scalable microservices using Java and Spring Boot, optimizing backend performance by 40% through database optimizations and caching mechanisms.
- Designed and developed scalable RESTful APIs for cloud-based applications using Spring Boot, integrating OAuth 2.0 and JWT for secure authentication, API rate limiting, and request validation.
- Implemented API documentation using Swagger, ensuring clear specifications for internal and external integrations.
- Designed and optimized cloud-native applications on AWS, improving deployment efficiency by 35%.
- Led frontend enhancements using React.js & Vue.js, optimizing UI responsiveness and reducing user friction by 25%.
- Managed CI/CD pipelines with GitLab CI and GitHub Actions, automating deployments for microservices-based cloud applications and integrated with Kubernetes for blue-green deployments, rollback strategies, and monitoring using Prometheus & Grafana.
- Implemented containerized deployments with Docker & Kubernetes, ensuring high availability and seamless scaling.
- Enforced security best practices, conducting code reviews and implementing secure authentication protocols.
- Collaborated in Agile teams, actively participating in sprint planning, backlog grooming, stand-ups, and retrospectives.
- Proficient in Linux system administration, scripting (Bash, Python), and cloud-based deployments in Linux environments.
- Maintained comprehensive documentation for APIs, deployment processes, and security policies, improving onboarding efficiency for new developers.

## Education

**Dalhousie University** **Jan 2024 - Sep 2025**

*Master of Applied Computer Science (Co-op Candidate)* — ***GPA: 4.07/4.3*** *Halifax, Canada*

**Relevant courses**: Advance Topics in Cloud Computing, Advanced Cloud Architecting, Advanced Web Services, etc.

**Charusat University** **Jun 2018 - Apr 2022**

*Bachelor of Computer Engineering* — ***GPA: 8.7/10*** *Gujarat, India*

## Projects

**ServiceHub** | *Source Code* **ReactJS | Spring Boot (JAVA) | MySQL | AWS**

- Designed and built a scalable web application for service providers and requesters, integrating e-signed contracts and feedback systems, resulting in a 20% increase in user engagement by enhancing user trust and interaction flow.
- Designed a scalable infrastructure with EC2 Auto Scaling Groups (ASG), Elastic Load Balancer (ALB), and Amazon DynamoDB for high availability and fault tolerance.
- Automated infrastructure provisioning and deployment using AWS CloudFormation, ensuring consistent and repeatable cloud environments, reducing deployment time by 50%.

**K8s Microservices** | *Source Code* **Spring Boot (Kotlin) | Kubernetes | Docker | CloudBuild | GCP**

- Implemented Kubernetes-based microservices architecture, creating a highly available system with two Spring Boot containers, ensuring secure communication and fault tolerance between services.
- Deployed microservices using Kubernetes and automated deployment processes with CloudBuild, improving deployment speed and scalability by 40%.
- Worked with Docker containers to facilitate easy application deployment, increasing the speed of testing and production cycles while ensuring a consistent environment across development and production.