

VRAJ SHAH

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Skills

Programming Languages: Python, Go, Kotlin, Java, JavaScript, TypeScript, SQL, C++, C#

Web & Backend Development: Spring Boot, Node.js, RESTful APIs, Microservices, Web Application Frameworks

Cloud & Infrastructure: AWS (Lambda, EC2, Fargate, API Gateway, ALB, SQS, SNS, SES, CloudWatch), Azure (DevOps), Kubernetes, Docker

DevOps & CI/CD: GitHub Actions, GitLab CI, Jenkins

Database Management: PostgreSQL, MySQL, Firebase Firestore, RDBMS

Software Development Practices: Agile (Scrum), Test-Driven Development (TDD), System Design, UI/UX Design

Soft skills: Strong communication, Problem solving, Teamwork and collaboration, Adaptability, Attention to detail, Critical thinking, Time management, Ability to learn continuously

Work Experience

Simform Solutions

Dec 2021 - Nov 2023

Software Engineer

Ahmedabad, India

- **Improved application performance by 40%** by designing scalable, cloud-based distributed systems using **AWS and microservices architecture**, ensuring 99.9% uptime.
- Enhanced system fault tolerance and scalability by implementing **Docker and Kubernetes** for microservices, **reducing response time by 30%** during peak loads.
- **Reduced deployment issues by 25%** and increased automation by optimizing CI/CD pipelines using **GitHub Actions and GitLab CI**, leading to faster and more reliable releases.
- Improved system monitoring and logging using **CloudWatch and Prometheus**, **reducing downtime by 20%** by proactively identifying and resolving infrastructure issues.
- **Accelerated database query performance by 50%** by optimizing **SQL queries in MySQL and PostgreSQL**, improving response times for critical applications.
- **Led cross-functional Agile teams** in developing mission-critical software solutions, **improving product development cycles by 30%**.
- **Conducted thorough code reviews**, introduced best coding practices, and implemented a comprehensive testing framework, **reducing production bugs by 75%**.
- **Increased code reliability by 75%** by implementing **unit and integration tests** using **JUnit, Mockito, and Espresso**, ensuring robust test coverage and reducing production defects.

Education

Dalhousie University

Jan 2024 - Sep 2025

Master of Applied Computer Science (Co-op Candidate) | GPA: 4.07/4.3

Halifax, Canada

Charusat University

Jun 2018 - Apr 2022

Bachelor of Computer Engineering | GPA: 8.7/10

Gujarat, India

Projects

ServiceHub (AWS Infrastructure Automation) | *Source Code*

AWS Services

- Migrated ServiceHub, a **Java Spring Boot + ReactJS web application**, to a cloud-native AWS architecture, improving system reliability, scalability, and fault tolerance using **EC2 Auto Scaling Groups, ALB, and Amazon RDS**.
- Automated infrastructure provisioning and deployment with **AWS CloudFormation**, ensuring consistent and repeatable cloud environments, **reducing deployment time by 50%**.
- Applied **AWS Well-Architected Framework best practices**, optimizing system reliability, performance efficiency, and cost management, **improving resource utilization by 30%**.

K8s Microservices | *Source Code*

Spring Boot (Kotlin) | Kubernetes | Docker | CloudBuild

- Designed a **Kubernetes-based microservices architecture** with Spring Boot containers, ensuring secure communication and fault tolerance, **leading to a 99.9% uptime rate**.
- Deployed **microservices using Kubernetes** and automated deployment processes with **CloudBuild**, accelerating **deployment speed and scalability by 40%**.
- Utilized **Docker containers** to standardize application environments across development and production, **reducing deployment inconsistencies by 35%** and increasing testing efficiency.