

VRAJ SHAH

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Work Experience

Simform Solutions

Dec 2021 - Nov 2023

Software Engineer

Ahmedabad, India

- Improved application performance by 40% by designing cloud-based microservices on AWS, ensuring 99.9% uptime.
- Reduced deployment failures by 25% by implementing automated CI/CD pipelines with GitHub Actions and GitLab CI, leading to faster, more reliable releases.
- Enhanced system scalability by 30% by integrating Kubernetes and Docker, reducing infrastructure costs by 20% and improving response time during peak traffic loads.
- Increased test coverage by 75% by implementing unit, integration, and API testing using JUnit, Mockito, and Postman, ensuring end-to-end test automation and reducing production defects.
- Reduced infrastructure setup time by 50% by automating deployments with Terraform, improving cloud provisioning consistency.
- Cut debugging time by 20% by implementing centralized logging and monitoring using AWS CloudWatch and Prometheus, improving fault detection in cloud-based and virtual desktop environments.
- Accelerated development cycles by 30% by leading Agile sprints, implementing best practices from Software Development Lifecycle (SDLC), and collaborating with cross-functional teams in a DevOps-driven SaaS environment.

Skills

Programming: Python, JavaScript (Node.js, TypeScript), Go, Kotlin, Java, C++, SQL

Cloud & DevOps: AWS, Azure DevOps, Google Cloud Platform, Terraform, Kubernetes, Docker

Backend & Microservices: Spring Boot, Node.js, REST APIs, Microservices Architecture

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

Testing & Automation: API Testing (Postman, JUnit), End-to-End Testing, Security Scanning, Automated Testing, Virtual Desktop Infrastructure (VDI) Testing

Databases: PostgreSQL, MySQL, Firebase Firestore

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

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

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 (monolithic app), 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, integrating automated security scanning and end-to-end testing into the CI/CD pipeline, reducing deployment time by 50%.
- Applied AWS Well-Architected Framework best practices, optimizing system reliability, operational efficiency, and cost management, improving resource utilization by 30%.

K8s Microservices | Source Code

Spring Boot (Kotlin) | Kubernetes | Docker | CloudBuild

- Designed a Kubernetes-based high-availability microservices architecture with Spring Boot containers, implementing API testing and performance optimizations to handle 10,000+ concurrent users, ensuring 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 improving development and testing consistency.