Vraj Shah

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Skills

Programming Languages: Go, Python, Kotlin, Java, Bash, JavaScript, TypeScript, SQL

Cloud & Infrastructure: Azure (including DevOps), AWS, Kubernetes, Docker, Cloud Infrastructure

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

Distributed Systems & Microservices: Kubernetes, Docker, Spring Boot, RESTful APIs, Microservices

Monitoring & Logging: Prometheus, Grafana, CloudWatch, New Relic

Database Management: MySQL, PostgreSQL, 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

Work Experience

Simform Solutions **Dec 2021 - Nov 2023**

Software Engineer *Ahmedabad, India*

- **Spearheaded the development of scalable, cloud-based distributed systems** using Azure, Kubernetes, and Docker, **boosting application performance by 40%** and ensuring 99.9% uptime across production environments.
- **Orchestrated the containerization and deployment of microservices** using Docker and Kubernetes, improving system fault tolerance and scalability, **resulting in a 30% faster response time during peak load times**.
- **Automated and optimized CI/CD pipelines** with Jenkins and GitLab CI, **cutting deployment issues by 25%** and reducing manual intervention, leading to faster, more reliable software delivery.
- **Designed and implemented robust monitoring systems** using Prometheus and Grafana, proactively identifying and addressing infrastructure issues, which **reduced downtime by 20%**.
- **Drove significant improvements in database performance** by optimizing SQL and MongoDB queries, which **led to a 50% faster data retrieval time**, improving overall application performance.
- **Led cross-functional teams** in an Agile environment, **enhancing collaboration and communication, which resulted in a 30%** improvement in the product development cycle and more efficient feature rollouts.
- **Conducted in-depth code reviews**, implemented best coding practices, and introduced a comprehensive testing framework, **reducing production bugs by 75%** and ensuring high-quality, maintainable code.

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, from a traditional deployment setup **to a fully cloud-native AWS architecture**.
- **Designed a scalable infrastructure** with EC2 Auto Scaling Groups (ASG), Elastic Load Balancer (ALB), and Amazon RDS (MySQL) **for high availability and fault tolerance**.
- **Automated infrastructure provisioning and deployment** using AWS CloudFormation, **ensuring consistent and repeatable cloud environments**.
- **Applied AWS Well-Architected Framework best practices** to optimize reliability, performance efficiency, and cost.

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

- **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.