Vraj Shah

Summary

Master's student with experience in DevOps, cloud automation, and mobile application and its back-end integration. Skilled in Android/iOS app development and support, CI/CD pipelines, and automated mobile testing. Strong knowledge of AWS, Kubernetes, and infrastructure as code.

Technical Skills

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

Mobile Application & Testing: Android (Java/Kotlin), iOS (Swift), XCTest, Espresso, Selenium

DevOps & Automation: AWS (S3, Lambda, Route53, IAM), Azure DevOps, Docker, Kubernetes, Terraform, CI/CD (GitHub Actions, Jenkins, GitLab CI)

Backend & API Development: Java, Kotlin, Spring Boot, REST APIs, GraphQL, Firebase, Postman, Swagger

Automation & Configuration Management: Bash, Python, Ansible, Puppet, Fabric, AWS Lambda (for cloud functions)

Testing & CI/CD: Jenkins, GitHub Actions, pytest, GitLab CI, Bamboo, Maven, Gradle

Version Control & Software Delivery: Git, Git Flow, Agile (Scrum), Test-Driven Development (TDD), GitHub webhooks 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

- Developed and optimized backend web services for mobile applications using Java and Spring Boot, improving response time and performance by 40% through efficient API design, query optimization, and caching strategies.
- Automated infrastructure setup for mobile application backend services using Ansible, Terraform, and Docker, reducing manual overhead by 40% and speeding up provisioning.
- Optimized SQL and MongoDB queries, improving data retrieval speed and integrity by implementing proper indexing, query refactoring, and database schema optimizations, resulting in faster API responses and improved scalability.
- Developed and maintained CI/CD pipelines for mobile applications and backend services using Jenkins and GitHub Actions, integrating automated testing and deployment strategies, reducing deployment issues by 25%.
- Conducted code reviews and enforced best practices, ensuring high code quality and maintainability, reducing code-related issues by 75% through adherence to SOLID principles, static code analysis, and team mentorship.
- Streamlined feature delivery by collaborating with cross-functional teams in Agile sprints, improving release timelines by ensuring seamless integration between frontend, backend, and QA workflows.
- Managed Linux-based production systems, ensuring high availability, security, and performance monitoring using Splunk, AWS CloudWatch, and log analysis, contributing to 99.9% uptime and proactive issue resolution.

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 | Source Code

 $ReactJS \mid Spring Boot (JAVA) \mid MySQL$

- 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.
- Applied Object-Oriented Programming principles (e.g., classes, objects, inheritance) to design modular and reusable code for the backend, ensuring maintainability and scalability.
- Architected backend using Java Spring Boot and integrated it with a ReactJS frontend, achieving 99.9% uptime and enabling seamless real-time interactions among over 1,000 active users.

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.
- Designed and deployed mobile backend services using Kubernetes and automated deployment processes with CloudBuild, ensuring seamless mobile API integration and regression testing.
- 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.

Mobile Testing Automation Suite

Kotlin | Espresso | JUnit | GitHub Actions

- Developed an automated testing framework for Android applications using Espresso and JUnit, reducing manual testing time by 50%.
- Integrated tests into a CI/CD pipeline using GitHub Actions to ensure consistent validation of app features across devices.