## Vraj Shah

### Objective

A results-driven software engineer with expertise in **Android**, **iOS**, and full-stack development. Passionate about building innovative solutions from the ground up, I have strong proficiency in **JavaScript**, **Python**, and **backend systems**, along with a track record of shipping products that solve real-world problems. Looking to leverage my skills to contribute to the growth and success of NationGraph in an in-person role.

#### **Technical Skills**

Languages: Kotlin, Swift, Java, JavaScript, TypeScript, Python, C# (Basic)

Frontend Development: ReactJS, Next.js, Angular, HTML5, CSS3, Bootstrap, NPM

Backend Development: Node.js, Spring Boot (Java/Kotlin), RESTful APIs, Python (ETL & Data Processing)

Databases: MySQL, MongoDB, SQLite, SQL Server, Oracle

Cloud & DevOps: AWS, Azure, Firebase, CI/CD Pipelines (GitHub Actions, GitLab CI)

Testing & Version Control: JUnit, Mockito, Espresso, Git (GitHub, GitLab) Web Performance Optimization: Lighthouse Audits, Lazy Loading, Caching

UI/UX: Figma, Wireframing, Accessibility (WCAG)

**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 Android and iOS applications using Kotlin, Swift, and Jetpack Compose, improving app performance by 40% and reducing load times by 25%.
- Designed scalable backend services with Spring Boot (Java/Kotlin) and Node.js, improving API efficiency by 35%, enabling seamless multi-user interactions.
- Led the integration of SQL and NoSQL databases (MySQL, MongoDB), boosting data retrieval speeds by 30% and ensuring robust transaction management.
- Implemented MVVM and Clean Architecture, increasing code maintainability and scalability by 30%, enabling faster feature rollouts.
- Streamlined CI/CD pipelines using GitHub Actions and GitLab CI, reducing deployment time by 50% and enhancing release efficiency.
- $\bullet$  Conducted unit testing with JUnit, Mockito, and Espresso, reducing bug occurrences by 40% before production deployment.
- Enhanced application security by integrating authentication and authorization mechanisms, reducing vulnerabilities by 60%.
- Designed and optimized SQL queries for relational databases, improving system efficiency and performance.

# Education

Dalhousie University

Jan 2024 - Sep 2025

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

Jun 2018 - Apr 2022

Bachelor of Computer Engineering | GPA: 8.7/10

Guiarat, India

Halifax. Canada

**Projects** 

 ${\bf Service Hub} \mid \mathit{Source} \ \mathit{Code}$ 

ReactJS | Spring Boot (JAVA) | MySQL

- Developed a scalable web application using ReactJS, implementing modular UI components for a seamless user experience. Integrated lazy loading and performance optimizations, reducing page load time by 40%.
- 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.
- 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.

ETL on Tweets Data | Source Code

ETL | OpenCSV | MySQL | GCP

- Built a distributed transaction system using Java, enabling dynamic redirection of queries across multiple MySQL VMs in GCP, supporting seamless ETL processes for efficient data processing and real-time interactions.
- Implemented horizontal and vertical data fragmentation techniques for a distributed MySQL database ("SocialMedia"), optimizing query performance and ensuring scalability in a cloud-based environment.
- Integrated and processed a large dataset of tweets from Kaggle, automating the ETL pipeline and enhancing system reliability, while ensuring robust and scalable backend architecture that aligns with distributed database management best practices.