

# VRAJ SHAH

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## Technical Skills

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**Frontend Development:** HTML5, CSS3, JavaScript, TypeScript, ReactJS, Angular, Bootstrap, NPM, Vue.js (familiarity)

**Web Performance & Optimization:** Lighthouse Audits, Lazy Loading, Caching, Code Splitting, UI/UX Best Practices

**Backend Development:** Node.js, Express.js, Spring Boot (Java/Kotlin), RESTful APIs, Basic C#

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

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

**Testing & Version Control:** JUnit, Mockito, Git (GitHub, GitLab), API Testing with Postman

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

## Work Experience

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### Simform Solutions

Dec 2021 - Nov 2023

*Software Engineer*

*Ahmedabad, India*

- **Developed and optimized Android and iOS applications** using Kotlin, Swift, and Jetpack Compose, **enhancing app performance by 40%** and **reducing load times by 25%**.
- **Designed and built scalable backend services** using Node.js and Spring Boot (Java/Kotlin), **improving API efficiency by 35%** and enabling seamless multi-user interactions.
- **Integrated SQL and NoSQL databases** (MySQL, MongoDB), **optimizing data retrieval speeds by 30%** and ensuring robust transaction management.
- Implemented MVVM and Clean Architecture for better code maintainability, **leading to a 30% increase in scalability** and quicker feature rollouts.
- **Streamlined CI/CD pipelines** with GitHub Actions and GitLab CI, **reducing deployment time by 50%**.
- **Wrote unit tests** with JUnit, Mockito, and Espresso, **reducing bugs by 40%** before production deployment.
- Improved application security by integrating authentication and authorization mechanisms, **reducing vulnerabilities by 60%**.

## Education

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### 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

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### ServiceHub | *Source 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.