# Vraj Shah

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## Education

**Dalhousie University**                                                                                  **Jan 2024 - Sep 2025**
*Master of Applied Computer Science — GPA: 4.07/4.3*                                                      *Halifax, Canada*

**Charusat University**                                                                                   **Jun 2018 - Apr 2022**
*Bachelor of Computer Engineering — GPA: 8.7/10*                                                          *Gujarat, India*

## Work Experience

**Simform Solutions**                                                                                     **Dec 2021 - Nov 2023**
*Software Engineer | Mobile Application Developer*                                                        *Ahmedabad, India*

- Designed and delivered scalable **Android and iOS mobile applications**, such as Drone Control, Vring, and OneCloud Connect, by implementing optimized code structures, resulting in a **40% performance improvement**.
- Implemented **MVVM architecture** and **Clean Architecture design patterns**, increasing **project scalability** and **maintainability** by **30%**, ensuring smooth feature rollouts.
- Streamlined development cycles by **30%** and enhanced code reliability by **developing 10+ reusable components** and contributing to open-source Java/Kotlin libraries, resulting in faster delivery of high-quality applications.
- Enriched app functionality and boosted user engagement metrics by **25%** by **integrating 5+ third-party SDKs and APIs** (e.g., Stripe, PayPal, IoT SDKs), leading to a **20% improvement in user retention rates**.
- Conducted **code reviews** and established **coding standards**, decreasing code issues by **75%** and maintaining alignment with **CI/CD practices** using Jenkins and GitLab pipelines.
- Reduced app crash rates by **35%** with **Firebase Crashlytics**, improving app-store ratings and user retention through **rigorous testing** and **debugging strategies**.

## Projects

**ServiceHub** | *Source Code*                                        **ReactJS | Spring Boot (JAVA) | MySQL**

- Built a scalable **web application** connecting service providers and requesters, achieving a **20% increase in user engagement** by implementing e-signed contracts, service management, and feedback systems to enhance trust and streamline interactions.
- Architected a robust backend using **Java Spring Boot** and integrated it seamlessly with **ReactJS**, achieving **99.9% uptime** while facilitating real-time interactions across multi-user workflows for over 1,000 active users.

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

- Implemented a Kubernetes-based **microservices architecture** with two Spring Boot containers, enabling seamless communication where a public-facing container invoked another internal service.
- Configured Kubernetes deployments, services, and ingress rules to ensure **scalability**, **secure communication**, and **fault tolerance** between microservices.

**Habit** | *APK* | *Source Code*                        **Android (Kotlin - XML) | Spring Boot (Kotlin) | MongoDb**

- Created an intuitive **habit-tracking mobile app** aimed at empowering users to build and manage daily routines; incorporated user feedback into design, resulting in a **40% increase in daily active users.**
- Engineered a robust **Spring Boot backend** integrated with **MongoDB**, achieving secure data storage and enabling seamless **real-time synchronization** across five different devices for enhanced user experience in habit tracking.

## Technical Skills

**Mobile Development**: Android (Java, Kotlin, XML, Jetpack Compose), iOS (Swift, Storyboard, SwiftUI)

**Frontend Technologies**: HTML, CSS, JavaScript, ReactJS, Bootstrap, TailwindCSS, Simple CSS

**Backend Technologies**: Spring Boot (Java/Kotlin), Node.js, RESTful APIs, Test-Driven Development (TDD)

**Cloud & DevOps**: AWS, Azure, Google Cloud Platform (GCP), Firebase, CI/CD Pipelines, Docker, Kubernetes

**Databases**: SQLite, MySQL, MongoDB, DynamoDB, Room, Realm

**Version Control & Collaboration**: Git (GitHub, GitLab, BitBucket, Azure), JIRA, ZOHO

**Programming Fundamentals**: Data Structures and Algorithms (DSA), Multi-threading, Coroutines

**Soft Skills**: Leadership, Team Collaboration, Analytical, Verbal, and Written Communication

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25 Jan 2024
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Hiring Team
General Motors

**Subject:** Application for 2025 Summer Co-Op Junior Developer

Dear General Motors Hiring Team,

The opportunity to contribute to General Motors' Enterprise Innovation team excites me as it combines my technical expertise and passion for innovation. As a Master of Applied Computer Science student at Dalhousie University with two years of professional experience in software development, I am eager to help shape the future of mobility and customer experience, supporting GM's vision of Zero Crashes, Zero Emissions, and Zero Congestion.

In my previous roles, I developed scalable, user-centric applications for Android and iOS using Kotlin and Swift, with strong backend integration. My proficiency in Python, React.js, and Spring Boot enables me to contribute effectively across the full stack. I have hands-on experience with testing frameworks, Agile methodologies, and continuous integration tools, ensuring code reliability and streamlined deployment pipelines.

The innovative projects described—such as leveraging GM's battery technology and creating next-gen immersive experiences—resonate deeply with my enthusiasm for pushing boundaries in technology. My problem-solving mindset and adaptability allow me to thrive in dynamic environments, whether collaborating in cross-functional teams or independently tackling complex challenges.

Beyond technical skills, I value documentation and process management, having used tools like Confluence, Lucid Charts, and Jira to streamline workflows. My ability to translate user stories into actionable solutions ensures that I can effectively contribute to GM's fast-paced, innovative environment.

I am drawn to GM's commitment to diversity, inclusion, and fostering a sense of belonging among employees. Joining a team that prioritizes meaningful change, and collaboration aligns with my personal and professional values.

Thank you for considering my application. I am eager to bring my skills and passion for innovation to GM's Enterprise Innovation team, helping to create impactful solutions that redefine mobility and customer experiences. I look forward to the opportunity to discuss how I can contribute to your team's success.


Sincerely,
Vraj Shah

# Academic Record - Shah, Vraj Sunilkumar (B00979965)

**DALHOUSIE UNIVERSITY** Degrees/Diplomas and Honours Awarded

## 2023/2024 Winter

| | | | | | Credit Hrs | Grade | Median Grade | Enrol |
|---|---|---|---|---|---|---|---|---|
| **Master of Applied Comp Science: Computer Science** | | | | | | | | |
| CSCI | D | 5100 | 2 | Communicating Comp Sci Ideas | 03.0 | B+ | | |

In Good Standing

## 2023/2024 Summer

| | | | | | Credit Hrs | Grade | Median Grade | Enrol |
|---|---|---|---|---|---|---|---|---|
| **Master of Applied Comp Science: Computer Science** | | | | | | | | |
| CSCI | D | 5308 | 2 | Adv Topics in Software Develop | 03.0 | A+ | | |
| CSCI | D | 5408 | 2 | Data Mgmt, Warhsng Analytics | 03.0 | A | | |
| CSCI | D | 5709 | | Adv. Topics in Web Development | 03.0 | A+ | | |

In Good Standing

## 2024/2025 Fall

| | | | | | Credit Hrs | Grade | Median Grade | Enrol |
|---|---|---|---|---|---|---|---|---|
| CSCI | D | 5409 | 2 | Adv Topic in Cloud Computing | 03.0 | A+ | | |
| CSCI | D | 5411 | 2 | Advanced Cloud Architecting | 03.0 | A | | |
| CSCI | D | 5708 | 2 | Mobile Computing | 03.0 | A+ | | |
| CSCI | D | 9890 | 2 | Internship Preparation | 00.0 | PASS | | |

In Good Standing

## GRADES NOT AVAILABLE

Credit Hrs

## Current Program: 2023/2024 Winter

**Master of Applied Comp Science: Computer Science**

| | | | | Credit Hrs |
|---|---|---|---|---|
| **2023/2024 Winter** | CSCI | D 3901 1 | Software Development Concepts | 6 |

## Current Program: 2024/2025 Winter

**Master of Applied Comp Science: Computer Science**

| | | | | Credit Hrs |
|---|---|---|---|---|
| **2024/2025 Winter** | CSCI | D 5501 2 | Deep Learning Applications | 3 |
| **2024/2025 Winter** | CSCI | D 5601 2 | Designing for UX | 3 |