

# VRAJ SHAH

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## Education

### Dalhousie University

Master of Applied Computer Science — GPA: 4.07/4.3

Jan 2024 - Sep 2025

Halifax, Canada

### Charusat University

Bachelor of Computer Engineering — GPA: 8.7/10

Jun 2018 - Apr 2022

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

**Vraj Shah**

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25 Jan 2024

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Hiring Team

**Motorola Solutions**

**Subject:** Application for Software Developer Co-op

Dear Motorola Solutions Hiring Team,

As someone who thrives on designing impactful, user-centric software, I am excited about the opportunity to contribute to Motorola Solutions' mission of enhancing safety and security through advanced technologies. With a strong foundation in **object-oriented programming** and a deep interest in video processing systems, I am eager to bring my technical skills and collaborative mindset to your software engineering team.

I am currently pursuing a master's in applied computer science at Dalhousie University, where I've gained hands-on experience in **C#** and **JavaScript** through academic projects and independent development. Some highlights of my relevant skills include:

- **Software Development Expertise:** Experience with **design patterns** and **data structures**, ensuring efficient and scalable solutions.
- **Full-Stack Knowledge:** Proficiency in front-end and back-end development, with exposure to tools like **Node.js** and **TypeScript**.
- **Agile Methodologies:** Familiarity with **Agile practices** and tools such as **Jira** and **Azure DevOps**, streamlining development pipelines for seamless delivery.

My experience also extends to creating systems that integrate complex functionalities, and I have a keen interest in learning more about **digital video and audio encoding standards**, aligning with Motorola Solutions' focus on video surveillance products. What excites me most is the chance to design and optimize systems responsible for storing, rendering, and analysing video and audio data—work that has a tangible impact on the safety of people and communities worldwide.

Motorola Solutions' dedication to innovation and its transformative approach to safety inspires me, and I am eager to collaborate with your team to build and enhance market-leading solutions.

Thank you for considering my application. I look forward to the opportunity to discuss how my skills and passion for creating robust, user-focused software can contribute to the success of Motorola Solutions.

Sincerely,

**Vraj Shah**

# Academic Record - Shah, Vraj Sunilkumar (B00979965)

Jan 08, 2025 12:47 am  
For information relating to the transcript see the transcript key ([https://www.dal.ca/admissions/registrars\\_office/transcript\\_key.html](https://www.dal.ca/admissions/registrars_office/transcript_key.html))



**DALHOUSIE**  
UNIVERSITY

## Degrees/Diplomas and Honours Awarded

*This is NOT an official transcript.*

2023/2024 Winter	<u>Credit Hrs</u>	<u>Grade</u>	<u>Median Grade</u>	<u>Enrol</u>
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**Master of Applied Comp Science: Computer Science**

CSCI	D	5100	2	Communicating Comp Sci Ideas	03.0	B+
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In Good Standing

*This is NOT an official transcript.*

2023/2024 Summer	<u>Credit Hrs</u>	<u>Grade</u>	<u>Median Grade</u>	<u>Enrol</u>
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**Master of Applied Comp Science: Computer Science**

CSCI	D	5308	2	Adv Topics in Software Develop	03.0	A+
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CSCI	D	5408	2	Data Mgmt, Warhsng Analytics	03.0	A
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CSCI	D	5709	Adv. Topics in Web Development	03.0	A+
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In Good Standing

*This is NOT an official transcript.*

**2024/2025 Fall**

					<u>Credit Hrs</u>	<u>Grade</u>	<u>Median Grade</u>	<u>Enrol</u>
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

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**GRADES NOT AVAILABLE**

Credit Hrs

**Current Program: 2023/2024 Winter**

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

2023/2024 Winter	CSCI	D 3901 1	Software Development Concepts	6
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**Current Program: 2024/2025 Winter**

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

2024/2025 Winter	CSCI	D 5501 2	Deep Learning Applications	3
2024/2025 Winter	CSCI	D 5601 2	Designing for UX	3

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