

# 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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26 Jan 2024

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Hiring Team

Traqspera

**Subject:** Application for Software Engineer Intern

Dear Traqspera Hiring Team,

Field data management is an exciting frontier, and Traqspera's innovative solutions stand out as a game-changer for businesses. The opportunity to contribute to your mission of streamlining operations and enhancing decision-making through technology is one I'm genuinely excited about.

As a master's student in Applied Computer Science at Dalhousie University, I bring two years of professional experience developing native Android and iOS applications. This hands-on experience with Kotlin and Swift has honed my ability to build efficient and user-friendly applications. Alongside my mobile development expertise, I've worked on web technologies, building projects using React for the front end and exploring back-end development with frameworks like Laravel. In addition to technical skills, here's how I align with your needs:

- **Front-End Development:** Proficient in React, I've created intuitive, responsive interfaces that prioritize user experience.
- **Back-End Knowledge:** My familiarity with PHP and Laravel enables me to design robust, scalable back-end solutions.
- **Agile Collaboration:** I thrive in agile teams, contributing effectively to sprints, stand-ups, and iterative feature development.
- **Problem-Solving:** Debugging and optimizing code has been a central part of my workflow, ensuring performance and reliability.

I also bring experience with Git for version control, basic knowledge of AWS services, and a commitment to learning and adapting quickly. Whether it's brainstorming new features, enhancing existing ones, or troubleshooting issues, I'm ready to jump in and make a meaningful impact.

Your offer of mentorship and a collaborative environment is a perfect match for my drive to grow as a developer. Joining Traqspera means contributing to projects that deliver real-world value while working alongside passionate professionals.

I'd love to discuss how my background and skills can contribute to your mission. Thank you for considering my application. I look forward to the possibility of joining your team.

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

*This is NOT an official transcript.*

**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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