

# Khalil Virji

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## EDUCATION

### McGill University

B.Sc Major Mathematics and Computer Science

Montreal, QC

Graduation: 2022

- **GPA:** 3.85/4.0
- **Relevant Coursework:** Algorithms, Data Structures, Operating Systems, Software Design, Game Development

## EXPERIENCE

### Dynamic Integration Technologies

Co-Founder and Software Engineer

Montreal, QC

06/2020 - Present

- Engineered and developed a touch-less checkout system from scratch using UHF RFID technology
- Researched practical aspects of RFID technology and how it can be utilized in small retail spaces

### Sensequake

Web Developer

Montreal, QC

5/2020 - 09/2020

- Used Node, Express, MongoDB and CSS to develop an improved web portal for clients
- Worked with AWS services including S3, Lambda and EC2
- Implemented an automatic modal analysis algorithm and real-time vibration graphs from sensor data

### Traction on Demand

Developer Intern

Montreal, QC

01/2020 - 03/2020

- Studied aspects of the Salesforce platform including development, security and database architectures
- Improved clients business processes by developing interactive components, automated workflows, and analysis algorithms
- Applied my knowledge of Salesforce by achieving over 50 Trailhead badges and becoming proficient in writing Apex code, lightning components and SOQL queries

### McGill University

Teaching Assistant

Montreal, QC

9/2019 - 12/2019

- Teaching Assistant for COMP 250: Introduction to computer science
- Constructed weekly quizzes and assignments related to course material for over 650 students
- Helped students develop core computer science fundamentals by holding weekly office hours

## PROJECTS

### Legends of Andor

Java, XML, Spring Boot, Android Studio, IntelliJ

Group Project 2020

[github.com/khalilv/LegendsOfAndor](https://github.com/khalilv/LegendsOfAndor)

- Developed a multiplayer, turn-based game for android devices using Android Studio, Spring Boot and IntelliJ
- Used a client-server architecture and several design patterns for development. Used Git to coordinate work

### Terminal Shell Clone and Mock File System

C

Academic Project 2019

[github.com/khalilv/tinyShell](https://github.com/khalilv/tinyShell)

- Implemented a mock shell and file system using C and its standard libraries
- Worked with low level system calls, signal handling, internal commands and memory allocation

## CERTIFICATES AND AWARDS

**Salesforce Certified Platform Developer 1**, 2020

**MTA: Introduction to Programming using Java Certified**, 2019

**MTA: Database Fundamentals Certified**, 2019

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, C, HTML/CSS

**Technologies:** Git, Android, Linux, Salesforce, RFID