

# Khalil Virji

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## EDUCATION

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### McGill University

*B.Sc Major Mathematics and Computer Science*

Montreal, QC

*Graduation: 2022*

- **GPA:** 3.88/4.0
- **Relevant Coursework:** Algorithms, Data Structures, Operating Systems, Software Design, Information Privacy

## EXPERIENCE

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### CloudOps

*Cloud Developer Intern*

Montreal, QC

*05/2021 - 08/2021*

- Used Java and Spring Boot to develop features on a public facing API
- Worked with Vue.js, MySQL, Elasticsearch, and testing frameworks such as Jest, Spock, and JUnit
- Improved monetization of the platform by allowing discounts and credits to be applied to monthly invoices

### Sensequake

*Web Developer*

Montreal, QC

*5/2020 - 09/2020*

- Created a faster web portal for clients using Node.js, Express.js, MongoDB, HTML, and CSS
- Worked with AWS services including S3, Lambda, and EC2
- Implemented an automated modal analysis algorithm and real-time vibration plots from raw sensor data

### Traction on Demand

*Developer Intern*

Montreal, QC

*01/2020 - 03/2020*

- Studied the Salesforce platform in depth with an emphasis on application development and customization
- Developed interactive lightning components, automated workflows, and analysis algorithms for clients
- Applied my knowledge by achieving over 50 Trailhead badges and becoming proficient in writing Apex code

### McGill University

*Teaching Assistant for COMP 250: Introduction to Computer Science*

Montreal, QC

*9/2019 - 12/2019*

- 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

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### Automated Temperature and Humidity Monitoring

*Arduino, Node.js, MongoDB, ESP32 microcontroller, RHT03 sensor*

Personal Project 2021

*Current Project*

- Implementing an automated temperature and humidity monitoring system for restaurants
- Working on issues such as increasing battery life, robustness, visualizing data, and error handling

### RFID Touchless Checkout System

*Java, Linux, Sargas UHF RFID reader, UHF RFID tags, ultrasonic sensors*

Personal Project 2020

- Engineered a component that is able to accurately and simultaneously scan all items in a grocery cart

### 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, mobile game for Android devices

## CERTIFICATES AND AWARDS

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**Tomlinson Engagement Award for Mentoring**, McGill University 2021

**Salesforce Certified Platform Developer 1**, 2020

**MTA: Database Fundamentals Certified**, 2019

## OTHER TECHNICAL SKILLS

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Object Oriented Programming, Python, JavaScript, Bash, Git, IoT, Android Development, CI/CD