Khalil Virji

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EDUCATION

McGill University   Montreal, QC
B.Sc Major Mathematics and Computer Science   *Graduated: May 2022*
- **GPA**: 3.89/4.0
- **Relevant Coursework**: Robotics, Artificial Intelligence, Computer Vision, Software Design, Information Privacy

EXPERIENCE

CloudOps | Cloud Developer Intern   Monteal, QC
Java, Spring Boot, Spock, MySQL, Vue.js, Jest   *05/2021 - 09/2021*
- Developed features on a public facing API that integrates with AWS, Azure, and Google Cloud platforms
- Improved monetization of the platform by implementing a discounts and credits feature for monthly invoices
- Created a trials feature enabling new clients to test out the platform before committing to a subscription

Sensequake | Web Developer   Montreal, QC
Node.js, Express.js, MongoDB, jQuery, HTML, CSS   *5/2020 - 09/2020*
- Built an improved web portal decreasing latency by 50% while doubling visualizations of sensor data
- Developed commands to interact with hardware sensors and produce real-time vibration plots
- Implemented an automated modal analysis algorithm using machine learning techniques from selected papers

Traction on Demand | Developer Intern   Montreal, QC
Salesforce, Apex, SOQL   *01/2020 - 03/2020*
- Utilized the Salesforce platform to develop interactive lightning components, automated workflows, and analysis algorithms for clients

McGill University | Teaching Assistant   Montreal, QC
COMP 250: Introduction to Computer Science | COMP 273: Introduction to Computer Systems   *9/2019 - Present*
- Constructed and graded quizzes, assignments, and exams for 600+ students
- Helped students develop computer science fundamentals by holding weekly office hours

PROJECTS

Automated Temperature and Humidity Monitoring   Personal Project 2021
Arduino, Node.js, MongoDB, ESP32 microcontroller, RHT03 sensor   *Current Project*
- Implementing an automated temperature and humidity monitoring system to limit food waste in restaurants
- Working on issues such as increasing battery life, robustness, visualizing data, and error handling

RFID Touchless Checkout System   Personal Project 2020
Java, Linux, UHF RFID readers and tags, ultrasonic sensors   github.com/khalilv/D1JavaReaderScript
- Engineered a system that is able to accurately and simultaneously scan all items in grocery carts

Legends of Andor   Group Project 2020
Java, XML, Spring Boot, Android Studio, IntelliJ   github.com/khalilv/LegendsOfAndor
- Developed a multiplayer, turn-based, mobile game for Android devices with an in-game chat room

CERTIFICATES AND AWARDS

Tomlinson Engagement Award for Mentoring, McGill 2021 | **MES Bourses d'excellence en sciences**, McGill 2021
Saleforce Certified Platform Developer 1, 2020 | **MTA: Database Fundamentals Certified**, 2019

OTHER TECHNICAL SKILLS

Python, MATLAB, JavaScript, C, Bash, Git, Android Development, AWS, Docker, CI/CD