James McDonald

Aspiring Software Engineer

About Me

I am a self-motivated Computer Engineering student who enjoys working in dynamic environments. I would like to use my software development expertise to contribute to a project that will significantly impact and improve the lives of Canadians. As I wrap-up my professional internship year, I am seeking to join a new company for the summer of 2020 before I return to school and finish my degree.

Summary of Skills

- 3+ years of computer programming experience
- Languages/Frameworks:
 - Advanced C, Java, SQL
 - Proficient C++, JavaScript, React
- Prior Experience C#, Flutter, Python, Node
- · Experience working with agile development and Git
- Strong communication and collaboration learned through 5+ years of customer service and team work
- · Skilled in design thinking and creative problem-solving

Project Portfolio

Cube Solver

- · Full stack web application which returns instructions to solve a Rubik's Cube based on the given state
- Created an API backend using Java and Spring Boot
- · Implemented interactive frontend using React
- Learned about project management through independent development

ProForm

- · Mobile application which analyzes user's squat form and provides helpful feedback
- Developed application using Flutter and Figma
- · Added user accounts and data storage using Firebase
- · Completed at a hackathon which enhanced collaborative development and time management skills

A complete list of my project work can found at: jamesgmcdonald.com

Community Involvement

- Hacktoberfest 2019 Contributor and Maintainer
- · Hack the North 2019 Participant
- · QHacks 2019 Participant
- Queen's Local Hack Day 2018 Participant

Contact Info

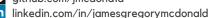


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Education

Queen's University

Bachelor of Applied Science (B.A.Sc.) - Computer Engineering

- · Graduating class of 2021
- In-major GPA of 3.6/4.3
- Dean's List Scholar 2017-2018 and 2018-2019
- Highlight courses: AI and Interactive Systems, Database Management Systems, Data Structures, Fundamentals of Software Development
- Involvement: Engineering Orientation Week Volunteer and Teaching Assistant for Electrical Circuits and Machines

Professional Experience

Full Stack Developer

Statistics Canada, Ottawa ON May 2019 - Present (completing internship April 2020)

- Developing internal web application with over 35,000 users which is mainly used for managing employees and collecting survey responses
- Used Java and SQL to restrict service request access to specific survey types and operations in order to eliminate the possibility of errors
- · Used Javascript and JQuery to implement hotkey functions that will greatly reduce Carpal Tunnel Syndrome in field employees
- · Exposure with technologies such as Apache Struts, JavaBeans, Liquibase, JPA, JUnit Testing and Spring

Software QA Analyst Intern

Longo's Grocery, Klienberg ON May 2018 - August 2018

- · Assisted in company's transformation of vendor ordering and distribution center operations to make better use of technology
- Wrote and executed testing scripts to ensure that various applications aligned with company's business requirements before their integration
- Conducted testing sessions with internal and external stakeholders used feedback to request software and process adjustments until approved

Volunteer Experience

Electronics Engineer

Queen's Hyperloop Design Team, Kingston ON September 2018 - July 2019

- Worked on an engineering design team to build a scale replica of a Hyperloop pod to be entered in the global SpaceX Hyperloop Competition
- · One of 21 teams out of 1,500 applicants to be invited to the final-round
- · Researched and selected pressure and IMU sensors for monitoring and maintaining the safety of the pod
- Prepared technical documentation of electrical components and how they integrate with the pod for each of the 4 documents submitted during the competition application process