James McDonald

Passionate Software Developer

About Me

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. I am a self-motivated Computer Engineering student who is always open to developing with new technologies.

Summary of Skills

- 3+ years of computer programming experience
- Languages: Java, C, SQL, C++, JavaScript, Python
- Frameworks: React, Node, Flask, React Native
- Experience working with agile development and Git
- Strong communication and collaboration
- · Skilled in design thinking and creative problem-solving

Projects

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

Fiscal Fresh

- Full stack web application which allows users to order ingredients to create full meals using *Instacart*
- Created Flask routes to retrieve recipes and ingredients from an external API
- Integrated backend with *React* frontend
- Selected as one of the top 3 projects from QHacks 2020

Full portfolio viewable at: iamesgmcdonald.com

Community Involvement

- QHacks 2020 Finalist
- · CUSEC 2020 Delegate
- · Hacktoberfest 2019 Contributor and Maintainer
- Hack the North 2019 Participant
- QHacks 2019 Participant

Contact Info



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in linkedin.com/in/jamesgregorymcdonald

Education

Queen's University

Bachelor of Applied Science (B.A.Sc.) - Computer Engineering 2016 - Present (Expected Graduation in May 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 in April 2020)

- Developing internal web application with over 35,000 users which is mainly used for managing employees and collecting survey responses
- Implemented logic to restrict service request access to specific cases using
 Java and SQL to eliminate the possibility of uncaught errors
- Built a set of system-wide hotkeys using JavaScript and JQuery that will greatly reduce Carpal Tunnel Syndrome in field-employees
- Created an AJAX API to enable the creation of survey relationships
- Exposure to technologies such as Spring, JUnit, Apache Struts, Liquibase

Software QA Analyst Intern

Longo's Grocery, Kleinberg 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

Extracurricular 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 the competition application process