# William Mui

3<sup>rd</sup> Year Mechatronics Engineering

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### **SKILLS**

Languages Frameworks Java • JavaScript • Python • C++ • C

Node.js • Express.js • React.js

Databases
Cloud & DevOps

MongoDB • Cassandra

Docker • Heroku • Jenkins • Gradle

## **EXPERIENCE**

**BlackBerry** 

Ottawa, ON

Software Development Student, Backend

May 2020 - August 2020

• Developed a multithreaded OAuth2/OpenID SDK in Java, facilitating communication between the RP/client and IDP

- Spearheaded the SDK architecture and provided extensive documentation and demos to external teams
- Updated **REST APIs** in **Express.js** to handle the creation and persistence of tenant users in a **Cassandra** database
- Wrote isolated unit tests using JUnit by mocking external API and service dependencies using Mockito
- Created a CI/CD pipeline in GitLab to build and test a Gradle project using an external JDK Docker image

**Infor** Toronto, ON

Software Developer, Backend

September 2019 – December 2019

- Reduced setup times for Infor's WFM web app by 70% by developing a **Docker** container for its **WebLogic** server
- Created a Java tool to track and log open JDBC connections across the WFM project using AOP principles
- Wrote comprehensive test scripts in **Groovy** used within a **Jenkins** pipeline, achieving 90% code coverage
- Utilized Apache Maven to build and manage Java projects and TortoiseSVN for version control of Jira tasks

Deep Trekker Kitchener, ON

Full Stack Developer

January 2019 - April 2019

- Developed a modular frontend for an underwater ROV controller using QML, reducing the codebase size by 40%
- Handled incoming embedded commands from the ROV to the controller using C++ in a Qt environment
- Prepared and tested key features for the DTG3 product release at an international trade show (Ocean Business 2019)

## **Agriculture and Agri-Food Canada**

Ottawa, ON

Web Analyst

May 2018 - August 2018

- Led the design and implementation of a responsive charity campaign website using JavaScript, HTML and CSS
- Delivered ongoing IT support to clients operating within an external SharePoint environment

#### **PROJECTS**

# **Spotify Playlist Generator**

React.js, Node.js, Express.js, MongoDB, Heroku

July 2020 - August 2020

- Developed a **React.js** app hosted on **Heroku** to help Spotify users organize their music with genre-specific playlists
- Built a **REST API** using **Express.js** to fetch data from Spotify's Web API and run algorithms to sort a user's library
- Implemented OAuth2 with sessions to handle encrypted tokens with a MongoDB database deployed on AWS

#### **EDUCATION**

# **University of Waterloo**