William Mui

3rd Year Mechatronics Engineering

4 (613) 808-2691

💌 wkkmui@uwaterloo.ca

github.com/williammui

in linkedin.com/in/williammui8

williammui.com

SKILLS

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

Node.js • Express.js • React.js

Databases

MongoDB • Cassandra

Cloud & DevOps Docker • Heroku • Jenkins • Gradle

EXPERIENCE

BlackBerry

Ottawa, ON

Software Development Student, Backend

May 2020 - Aug 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

Sept 2019 - Dec 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** for within a **Jenkins** pipeline, achieving 90% code coverage
- Utilized Apache Maven to handle external Java imports and TortoiseSVN for version control of Jira tasks

Deep Trekker Kitchener, ON

Full Stack Developer

Jan 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 - Aug 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 - Aug 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 wrote 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