

WILLIAM MUI

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SKILLS

Languages

Java • JavaScript • Python

Frameworks

Node.js • Express.js • React.js

Databases

Cassandra • MongoDB

Cloud & DevOps

Docker • Jenkins • Heroku • Gradle

EXPERIENCE

KitchenMate – Incoming Software Engineering Intern, Full Stack • Toronto, ON Jan 2021 – Apr 2021

- Will be working with **Node.js**, **Angular.js** and **PostgreSQL** to power and streamline products and business operations

BlackBerry – Software Development Intern, Backend • Ottawa, ON May 2020 – Aug 2020

- Spearheaded a multithreaded OAuth 2.0/OpenID **Java** SDK, facilitating communication between the client and IDP
- Developed an **Express.js** RESTful API used to perform CRUD operations for tenant users within a **Cassandra** database
- Wrote isolated unit tests using JUnit by mocking external API and service dependencies using the Mockito framework
- Created a CI/CD pipeline in GitLab to build and test a **Gradle** project by leveraging an external JDK **Docker** image

Infor – Software Developer Intern, DevOps • Toronto, ON Sep 2019 – Dec 2019

- Created a **Docker** container for a WebLogic server hosting a large-scale cloud app, reducing setup times by 70%
- Built tooling to track and log open JDBC connections across large project codebases using AOP principles in **Java**
- Wrote and integrated comprehensive Groovy scripts used within a **Jenkins** pipeline, achieving 90% code coverage
- Maintained and updated project dependencies and build scripts with Apache Maven and Ant in conjunction with SVN

Deep Trekker – Full Stack Developer Intern • Kitchener, ON Jan 2019 – Apr 2019

- Architected and developed a modular frontend for a ROV controller using **QML**, reducing the codebase size by 30%
- Integrated embedded commands from the ROV to the controller backend using **C++** in a Qt environment on Ubuntu
- Implemented dynamic interface support for an external sonar device, propagating visualization data to the frontend
- Prepared and tested key features for the DTG3 product release at an international trade show (Ocean Business 2019)

AAFC – Web Analyst Intern • Ottawa, ON May 2018 – Aug 2018

- Led the design, development and demos of a responsive charity campaign website using **JavaScript**, HTML and CSS
- Delivered ongoing IT support to AAFC clients to diagnose software issues within an external SharePoint environment
- Developed and tested custom site workflows using SharePoint Designer and provided documentation for clients
- Wrote PowerShell scripts to automate and streamline common Windows operations and reduce configuration times

PROJECTS

Spotify Playlist Generator • github.com/williammui/spotify-app July 2020 – Aug 2020

- Developed a **React.js** app deployed on Heroku to help Spotify users organize their music with genre-specific playlists
- Built a RESTful API using **Express.js** to run sorting algorithms and perform CRUD operations with the Spotify Web API
- Implemented OAuth 2.0 user authorization and used web sessions to handle encrypted tokens with **MongoDB** on AWS

EDUCATION

University of Waterloo • Entering 4th Year in Fall 2021 Sep 2017 – Apr 2022

- Candidate for BAsC, Honours Mechatronics Engineering, Co-op