William Mui

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SKILLS

Languages	Java • JavaScript • Python • C++ • C	**Databases**	MongoDB • Cassandra
Frameworks	Node.js • Express.js • React.js	**Cloud & DevOps**	Docker • Heroku • Jenkins • Gradle

EXPERIENCE

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

- Developed a multithreaded **OAuth 2.0/OpenID** SDK in **Java**, facilitating communication between the client and IDP
- Spearheaded the SDK architecture and provided API documentation used by external development teams
- Revamped **REST APIs** with **Express.js** used to create and persist tenant users within 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
Software Developer Intern, DevOps
Toronto, ON
Sep 2019 – Dec 2019

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

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

- Developed a modular frontend for an underwater 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**
- Prepared and tested key features for the DTG3 product release at an international trade show (Ocean Business 2019)

Agriculture and Agri-Food Canada
Web Analyst Intern
Ottawa, ON
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 to diagnose software issues within an external **SharePoint** environment
- Developed and tested custom site workflows using **SharePoint Designer** and provided documentation for clients

PROJECTS

Classify – Spotify Playlist Generator
Heroku, MongoDB, Node.js, Express.js, React.js
github.com/williammui/spotify-app
Jul 2020 – Aug 2020

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

EDUCATION

University of Waterloo
Candidate for BASc, Honours Mechatronics Engineering, Co-op
Sep 2017 – Apr 2022