

SOFTWARE ENGINEERING | FULLSTACK DEVELOPER | OPEN-SOURCE ENTHUSIAST

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Skills_

Languages Java • Python • C/C++ • C# • JavaScript • HTML • CSS • Arduino • Bash • SQL

Frameworks React • Vue.js • Bootstrap • JQuery • Node.js • Cypress

Tools & Technology Docker • Git • Firebase • JIRA • GDB • SSH • Android Studio • Vim • Emacs

Experience _____

DigitalEdWaterloo, Ontario, Canada

FULLSTACK DEVELOPER

May 2020 - Present

- Used **Vue.js** and **Java** to modernize a monolithic legacy codebase for the Möbius courseware.
- Found and quickly fixed more than **5 showstopper bugs** near version release.
- Took initiative to create **Docker** scripts to speed up development and testing workflow.
- Automated time consuming manual tests using **Cypress** to improve the testing workflow.

WatLock - Student Design Team

UI DEVELOPER/DESIGNER

Waterloo, Ontario, Canada

September 2019 - Present

- Building a Martian airlock with more than 100 members to compete in the UBC Mars Airlock Challenge.
- Lead proposal to include the utilization of **Electron**, **React**, and **Redux** to build an intuitive UI for the airlock.

Projects____

Gyroll 🗗

A 3D UNITY MARBLE TILT MAZE GAME FEATURING A CUSTOM GYROSCOPE ON AN ARDUINO

October 2019 - November 2019

- Built an **Arduino** controller and integrated angular/tilt-based controls with **C#** and **Arduino** scripts.
- Implemented game object behaviours such as turrets, spike balls, and randomly generated spawn points within C#.
- Enforced principals of agile development maximize productivity while working in a team.

Sagacity (Hack the North 2019 Finalist)

A WEB-APP MADE WITH NODE.JS & PUG WHICH ENHANCES NOTES WITH OCR AND NLP TECHNOLOGIES September 13, 2019 - September 15, 2019

- Placed within top 12 out of 375 teams, judged in terms of the wow factor, the technical difficulty, the originality, and the design.
- Generated relevant text around keywords to enhance notes by accessing NLP and OCR models within MongoDB via Node.js.
- Polished the front-end of the app with **Pug** to improve user experience.

JavaPaint 🛂

A FULL-FEATURED PAINT PROGRAM MADE WITH JAVA/SWING

April 2019 - July 2019

- Built a fully-featured drawing application using the **Swing API**, featuring options to save, program defaults, modifiers, and more.
- Implemented undo/redo stacks, shapes and a toolbar via object-oriented principals.

Orgmodoro 🗹

AN ANDROID POMODORO APP THAT IMPROVES PRODUCTIVITY, MADE WITH JAVA AND XML

May 2019 - June 2019

- Designed schematics and built an intuitive UI with XML, along with a settings menu containing timer and color scheme options.
- Integrated multiple activities/windows to allow data transfer between background processes.
- Utilized interactive push-notifications to indicate new states in the background, improving user interactions.

Project Witchcraft

AN ARCADE-LIKE BULLET-HELL GAME MADE WITH PYTHON/PYGAME

May 2018 - June 2018

- Created a system that uses frame data to manipulates animations, fire rates, and advanced bullet patterns.
- Implemented real-time difficulty adjustments, high-score systems, and refined controls for better user experience.

Education_____

University of Waterloo

Waterloo, Ontario, Canada

2019 - 2024 (Expected)

SOFTWARE ENGINEERING

• Candidate for BSE with President's Entrance Scholarship.