

Daniel Jiang

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Skills

Languages: C++, C, JavaScript, HTML, CSS, Java, Python, R, Cucumber, Racket
Frameworks/Tools: Emscripten, WebAssembly, Visual Studio, Android Studio, IntelliJ, Git, Windows, Linux/Unix, Selenium, RMarkdown, VirtualBox, XML, Heroku

Projects

WaveformPlayer (C++, Javascript, Emscripten) **December 2019 – September 2020**

- Designed and implemented a terminal-based C++ application for playing WAV files and displaying a spectrum visualization
- Used Emscripten to create a Javascript/WebAssembly port of the application to create a demo that runs in-browser

Vim Text Editor Clone (C++) **December 2019**

- Designed and implemented a simplified version of the Vim text editor for the final project of CS246E (Object-Oriented Programming Enriched) course
- Utilized various design patterns and OOP practices, and the NCurses library

YouTube Video Downloader (HTML/CSS/JavaScript, Heroku) **March 2019 – July 2019**

- Implemented a web-based application to get direct download links for Youtube videos of various media formats

To-do List Application (Java, XML, Android Studio) **January 2018 – June 2018**

- Designed and implemented a to-do list app using Java and XML with Android Studio that can be used to keep track of due dates, take notes, and track history

Experience

Web/Mobile Applications Test Associate **May 2019 – August 2019**

FLIR Systems (Waterloo)

- Designed and implemented automated tests with Cucumber, Java, and Selenium with the IntelliJ IDE to improve efficiency in the software verification process
- Introduced virtualization to the tech stack with VirtualBox to allow manual and automated tests to be easily performed in different environments (Linux, Windows)
- Performed manual testing, issue reporting and verification in preparation for product release for web and mobile (iOS, Android) applications
- Worked closely with developers in an Agile work environment to ensure features and bug fixes were verified before release

Education

Bachelor of Mathematics | *University of Waterloo* **(Expected 2023)**

Major in Computer Science, Major in Combinatorics and Optimization, Minor in Statistics