Daniel Jiang

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Skills

Languages: C++, C, JavaScript, HTML, CSS, Java, Python, R, PHP, 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 IntellliJ 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