

# Daniel Jiang

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## Skills

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**Languages:** C++, C, HTML, CSS, JavaScript, Java, Python, Cucumber, Racket

**Frameworks/Tools:** Emscripten, WebAssembly, Selenium, Visual Studio, Android Studio

## Projects

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**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

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**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

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**Bachelor of Mathematics** | *University of Waterloo*

**(Expected 2023)**

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