

# Daniel Jiang

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## Skills

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**Languages:** Java, C++, C, JavaScript/TypeScript, HTML, CSS, Python, R

**Frameworks/Tools:** Spring Boot, Angular, Eclipse, Visual Studio, Emscripten, WebAssembly, Android Studio, IntelliJ, Git, Selenium, RMarkdown, Tensorflow, PyTorch

## Experience

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### Software Developer

January 2021 – April 2021

Fundserv Inc. (*Toronto*)

- Analyzed existing full-stack software services (Spring Boot microservice backend, Angular frontend), then identified and implemented improvements to remove dependencies between the backend microservices and the frontend
- Fixed bugs and wrote unit tests and integration tests for Spring Boot microservices

### Web/Mobile Applications Test Associate

May 2019 – August 2019

FLIR Systems (*Waterloo*)

- Designed and implemented automated tests with Cucumber, Java, and Selenium
- Introduced virtualization facilitate testing in Windows and Linux environments
- Performed manual testing, issue reporting and bug-fix verification

## 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

## 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