

# Daniel Jiang

[djiang9001.github.io](https://djiang9001.github.io)

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## Skills

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

**Frameworks/Tools:** Docker, React, Spring Boot, Angular, Emscripten, WebAssembly, Git, Selenium, RMarkdown, Tensorflow, PyTorch, Terraform, Three.js

## Experience

### Full Stack Developer

September 2021 – December 2021

NextRoll (*San Francisco, California, United States*)

- Implemented REST APIs for a Dockerized Go service + PostgreSQL database backend
- Created and documented a new development workflow for Google Tag Manager (GTM) template development, and wrote web, client, and server GTM tag templates
- Performed AWS RDS PostgreSQL database migrations with AWS DMS and Terraform
- Upgraded React dependencies and Docker images to maintain various projects
- Investigated errors logged by an Erlang web server to look for potential bugs

### Software Developer

January 2021 – April 2021

Fundserv Inc. (*Toronto, Ontario, Canada*)

- 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, Ontario, Canada*)

- 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

### 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

### 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

## Education

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

(Expected 2023)

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