

# Darien Miller

## Full-Stack Software Engineer

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## Technical Skills

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**Programming Languages:** C++ (C++11 – C++20), Go, JavaScript (ES6), SQL, HTML5, CSS3/Sass

**Libraries and Frameworks:** React, Node.js, Express, Vue

**Tools:** Netlify, PostgreSQL, Heroku, Git, MySQL, MongoDB, Docker

## Projects

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### Chip-8 Emulator

//March 2023

- Developed a C++ implementation of a Chip-8 interpreter using a graphics library that perfectly mimics the system hardware of 8-bit microcomputers.
- Successfully managed to create system accurate CPU cycles, keyboard controls, and the ability to properly load and run most Chip-8 games.

### Messenger

//January 2023

- Engineered a React and Go web application based on Facebook Messenger that successfully implemented several core features such as private messaging and message deletion, as well original features such as a public chat.
- Constructed application to be fully responsive on smartphones, tablets, and larger monitors, and is currently deployed on the cloud service Netlify for use.

### ChoosEquality

//October 2022

- Coordinated a team of 4 as Scrum Master to rapidly develop in 2 days a web application using SolidJS, Go, and PostgreSQL to aid in the integration of formerly incarcerated persons back into society.
- Completed project in a timely manner, and presented it to a crowd of 100+ people including industry professionals to determine winner of competition.

### Better Banking

//July 2022

- Built a React and Go banking application inspired by Citibank that was successfully containerized using Docker, and deployed onto Heroku and Netlify.
- Integrated Google API seamlessly, allowing users to sign in using Google Information, and quickly process payments that are saved to a MongoDB database.

## Work Experience

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### Software Engineering Fellow @ CUNY Tech Prep

//August 2020 – May 2021

- Supervised future cohorts in establishing SQL relations and in deploying their databases to cloud services such as Heroku.
- Selected for a technical training program, as one of 183 students out of 400+ applicants.
- Learned in-demand technologies like React, Node + Express, and PostgreSQL as well as industry best practices for design, implementation, and deployment such as MVC, version control with Git/GitHub, agile & Scrum with Trello and Slack, test driven development, and CI/CD.

### Computer Science Tutor @ CUNY Tutor Corps

//February 2018 – May 2020

- Tutored 20 middle school and over 100 high school students using Code.org and the Snap graphical programming language, focusing on introductory programming concepts such as if-else statements, loops, variables, and functions.
- Developed and implemented teaching methods that accommodated the learning styles of over 70 students across 7 different classes, resulting in improvement by one letter grade at the end of each marking period.

## Education

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### Brooklyn College, City University of New York

//May 2021

Bachelor of Science in Computer Science

Recipient of STEM Scholarship 2015-2020