Caleb Stromberg

General Information:

    Email: calebstromberg@gmail.com
    Website: calebstromberg.com
    Github: github.com/Corncycle

Objective: Looking for an entry-level development position in the software industry that can leverage my mathematical and coding background.

Education:

Master of Science in Mathematics
    Western Washington University, 2020—2022. Graduated June 2022 with a 4.0 GPA
Bachelor of Science in Mathematics, magna cum laude
    Western Washington University, 2016—2020. Graduated June 2020 with a 3.94 GPA

Technologies: Javascript, React.js, webpack, Express, Pug, Python, Git, Github, Tailwind, Java, Firebase Firestore, HTML, and CSS.

Projects:

Ultimate Stage Data (Source) – Mongoose, Express, Pug, React, Tailwind, Node.js
This is my current project, a website in development that will serve stage-specific statistics of characters and matchups in Smash Bros. Ultimate tournaments. So far, I have...

- Processed over 1.5 million tournament matches and stored data in a MongoDB Atlas database using Mongoose and asynchronous queries to start.gg's GraphQL API
- Sped up page load times roughly 30x by building proper indexes for the data set
- Structured a MVC framework in Node.js using Pug templates with Tailwind for the user interface

Find The Fighter (Demo) (Source) – React, webpack, Firestore
A React-based image searching game with high scores stored in a Firestore database

- Used a React HashRouter to deploy a single page application on Github pages
- Connected app to a Firestore database to let players compare high scores on the site

You can see a list of all my projects on my personal website (which was also built in React).

Other Activities:

WWU Graduate Project — Sieve Methods
    For my graduate project for WWU's Master's program I studied a branch of number theory called sieve theory, in which the goal is to estimate the size of sets of positive integers, particularly sets of prime numbers. My studies focused on the sieve of Eratosthenes-Legendre and Selberg's sieve, and a proof of Brun's Theorem.

Academic Recognition
    I participated in the William Lowell Putnam Mathematical Competition in 2019 and achieved a score of 13 points, earning me a ranking of 807.4 out of 3428 students nationwide. For this placement, I received the Richard Greene Putnam scholarship from my university.

    In 2022, I was recognized as the outstanding graduate of WWU's math department for my academic achievement out of a pool of 50-100 other candidates.

Employment:

2020—2022   Graduate Teaching Assistant - Western Washington University
                Responsible for instructing and assessing undergraduate math students in introductory courses. Experienced with both remote and in-person instruction.
2017—2020   Math Fellow - Western Washington University
                At Western Washington University, the Mathematics Center is staffed by the Math Fellows, a group of students who are hired to offer tutoring in math subjects including calculus, linear algebra, statistics, and differential equations.