Brendan McGuire

brendan@bren.app • (864) 520-9321

https://github.com/MayorMonty/
https://bren.app
https://linkedin.com/in/bmmcgui/

Experience

Epic Systems
Software Development Intern

May 2022 – August 2022
Verona, WI

- **Technologies**: TypeScript, React, C#, Microsoft SQL Server, ChakraUI, @airbnb/visx
- Created a customizable dashboard used by hospital IT administrators to see an overview of their deployment of Epic Software
- Created ten stored procedures to collate summary data, which can be presented to end user to help troubleshoot issues
- Solicited user feedback to create a series of drag and drop components for the dashboard, with considerations for mobile use.

Clemson Energy Visualization & Analytics Center
Software Engineering Intern

May 2021 – January 2022
Clemson, SC

- **Technologies**: TypeScript, React, React Native, Node, OracleDB, Microsoft SQL Server, Git, Lerna, Next.js, Tailwind, Framer Motion, Docker
- Lead development of a cross-platform data collection system, integrating with building temperature control infrastructure
- Containerized development process in Docker for better deployments to production

Robotics Education and Competition Foundation
Event Support Specialist

September 2021 – Present
Dallas, TX (Remote)

- Supports K-12 educators hosting competitive robotics events throughout South Carolina
- Provides technical support, rules clarifications, conflict resolution and furthers nonprofit mission to increase STEM engagement for K-12 students
- Division Manager for the 2022 VEX Robotics World Championship

Clemson University School of Computing
Head Teaching Assistant – Data Structures and Algorithms

January 2021 – Present
Clemson, SC

- Lead 2 weekly lab sections including over 70 students in weekly C++ algorithmic assignments

Education

Clemson University
Bachelors of Science, Computer Science

Graduate May 2023
GPA: 3.93 / 4.00

- President of Clemson VEXU Robotics, a 501(c)(3) non-profit affiliated with University facilitating the University's premier competitive robotics teams.

Projects

tm-obs-switcher (*JavaScript*)
https://go.bren.app/tm-obs

Livestream automation for robotics tournaments, integrating with OBS and ATEM to automatically change the program scene when matches start. Used at over 30 live

CSS (*Rust*)
https://go.bren.app/css

A fully featured CSS parser and minifer written in Rust, following the W3C CSS Syntax Module Level 3 specification.

snoostorm (TypeScript/JavaScript)
https://go.bren.app/snoostorm

Event-based streaming library for the Reddit API with over 1200 downloads/month, allowing users to easily construct bots that respond to new submissions or comments