

Brendan McGuire

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Education

Clemson University

Bachelors of Science, Computer Science; Minor, Mathematical Sciences

Graduate May 2023

GPA: 3.93 / 4.00

- President of Clemson VEXU Robotics, a 501(c)(3) non-profit organization affiliated with University that facilitate university competitive robotics team. As President, managed 5 technical teams with over 50 members to design, build, program and compete a robot to complete a yearly challenge.

Experience

Boeing

Clemson School of Computing Capstone Internship

September 2022 – Present

Clemson, SC

- **Technologies:** Rust, Node.js, Python, HTML, CSS, JavaScript
- Created and programmed hardware device to maintain temperature for Cold Storage Volume in parallel with Boeing's existing development.
- Integrated custom frontend solution, served from a microcomputer to view and control hardware system
- Lead team of 4 developers in an agile development process, with weekly deliverable reports to stakeholders

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, Next.js, 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

Projects

tm-obs-switcher (JavaScript, Node.js)

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

Source

<https://go.bren.app/tm-obs>

CSS (Rust)

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

Source

<https://go.bren.app/css>

See more projects on GitHub: <https://go.bren.app/github>