Brock T. L. Bena

1848 Wood Run Place, Onalaska, WI 54650 · bbena99@gmail.com · (608) 799-1204

Education

Bachelor of Science degree   May 2024
- University of Wisconsin-La Crosse
- Major: Computer Science with a focus on Web-Development, Minor: Mathematics

Associate of Applied Science degree   May 2021
- Western Technical College, La Crosse, Wisconsin
- Computer and Electronics Engineering Technician

Professional Experience

Software Test Intern, Trane Technologies, La Crosse, WI   May 2021 - Present
- Created, maintained, and ran automated script to test new HVAC controller software builds
- Created a new frontend UI for our internal automated testing application

Electronics Test Intern, Trane Technologies, La Crosse, WI   May 2019 - April 2021
- Environmental testing and documentation on new HVAC controllers and other various electronics

Coursework and Project Experience

- New Frontend UI for Trane Technologies
  - Used web sockets to build a React framework UI
  - Participated in team code reviews
- Web-Development Final Project at University of Wisconsin-La Crosse
  - Made an AI website to make generative art by hitting an external API, via an Express JS framework backend, that returned the generated picture
  - Utilized an Angular frontend to build a UI to communicate with the Express backend
- Electric Longboard Capstone Project for Western Technical College
  - Used a handheld microcontroller that utilized a radio frequency communication module to communicate with another microcontroller on the longboard
  - Implemented a PID controller on the longboard to have a code controlled speed instead of a variable output, this produced a more stable speed on inclined surfaces

Technical Skills

- Proficient in Core Languages: HTML, CSS, JavaScript, TypeScript, Java, C, C++, Python, SQL, MongoDB
- Frameworks: React-TS, Angular-TS, Express-JS, Spring Boot, JQuery, REST, API's, Tailwind
- Other Skills: Linux, Ubuntu, AWS, Microsoft Office, Embedded Systems, Micro Controllers, Confluence