Travis Brown

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OBJECTIVE

Seeking co-op internship in software engineering from May 2025 to August 2025

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY   **Rochester, NY**

Bachelor of Science in Computer Science, Minor in Criminal Justice   **Expected: May 2027**

GPA: 3.94

HUDSON VALLEY COMMUNITY COLLEGE   **Troy, NY**

College ECHS P-Tech Program   **May 2023**

GPA: 4.0

SKILLS

Languages: Java, Python, C++, C, HTML/CSS, JavaScript, TypeScript, SQL

Embedded: Logic Analyzer, STM32 MCUs, SPI, PWM, ADC

Tools/Environments: Git, GitHub, Linux, MacOS, PostgreSQL, Java Spring, Angular

PROJECTS

RIT Electric Vehicle Team - Embedded Software Engineer   **Aug 2023 - Present**

- Worked with a multidisciplinary team to develop C++ firmware for custom-designed PCBs.
- Implemented support for essential peripherals such as PWM, ADC, SPI, and Timers on the STM32F4 series microcontroller, working closely with the STM32 Hardware Abstraction Layer.
- Applied STM32's CubeMX and CubeIDE to generate example code and converted it to work with EVT's hardware-agnostic API.
- Leveraged manufacturer datasheets to understand and utilize configuration registers properly, and researched peripherals for debugging.
- Employed Kanban principles and methodology for efficient project management.

U-Fund Web Application

Software Engineering 261 Semester Project   **Aug - Nov 2024**

- Developed a full-stack web application using a Java Spring backend and an Angular frontend.
- Utilized the Model-View-ViewModel design pattern for efficient data binding and clear separation of concerns.
- Followed Scrum practices like sprint planning, stand-ups, reviews, and retrospectives to deliver iterative improvements efficiently.
- Implemented persistent data storage through file I/O, ensuring user actions and system states were maintained across sessions.
- Conducted automated testing of the backend using JUnit to ensure code reliability and maintain high-quality standards.

Custom Course Flowchart Maker

Personal Project   **Oct - Nov 2024**

- Developed a dynamic web application for creating and managing custom course flowcharts using HTML, CSS, and JavaScript.
- Built a feature to save and load flowchart data, leveraging the browser's local storage for persistent user progress.
- Integrated PDF export functionality to allow users to download and share their custom course plans.

WORK EXPERIENCE

Spire Business Inc - Digital Content Assistant   **Fort Edward, NY**

- Designed SEO-optimized web pages with HTML/CSS per owner's specifications.   **Jun - Nov 2024**

BJ's Wholesale Club - Sales Associate   **Saratoga, NY**

- Collaborated with team members to deliver high-standard customer service, ensuring consistent customer satisfaction.   **Jun - Aug 2023**

ReportingMD - Internship   **Sunapee, NH**

- Developed understanding of Scrum methodology and its application in coding practices.   **Aug 2022**
- Acquired hands-on experience with SQL databases, flat file databases, and ETL processes.