

Adair 'Adi' Sempertegui

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Education

James Madison University,

Bachelor of Computer Science

Harrisonburg, VA

Graduation: May 2022

CS courses: Data Structures and Algorithms, Software Engineering, Web Development, Computer Systems

Projects

Multi-function Calculator (Java)

- Developed an interactive GUI using Java Swing and iteratively updated functionality to new demands of the product owner and audience.
- Adopted different roles within the Scrum framework, including as scrum master to defend the actions of the development team in deciding which functionality was realistic for the development period.

Calendar (React/Redux)

- Designed an interactive front-end website using JavaScript, CSS, and React.
- Developed a database in MySQL and Express for persistent journal entries using JSON as the intermediary data.
- Created functionality that allowed users to add new entries, modify them, and delete them from their journals, and have those changes interact with the database such that the changes were saved for the next time they visited the site.

Stock Trading Bot (Python/Alpaca API)

- Structured a while loop trading technique that checks the trading platform every minute for stock quotes and personal account information.
- Used the brokerage's OAuth2 API to authenticate each trading session, to make API calls to buy and sell stocks based on the stock's metrics and account value.

Work Experience

James Madison University

Tutor

Harrisonburg, VA

January 2021 – May 2022

- Provided one-on-one and group-based learning support to students with core object-oriented concepts and sorting algorithms.
- Prepared students to use debugging software and assisted them to test their own projects & assignments.

Skills & Interests

Familiar with: **Java, C, Python, SQL, JavaScript, HTML, React.js, GitHub, Git**, Agile, Algorithms

Interests: NBA, Weightlifting/fitness, Soccer, EDM, Hearthstone, and Spanish