Andrew Anggara

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🎓 Education

University of Sydney
Mar 2025
BSc. in Computer Science and Statistics (WAM: 85.25)
Sydney, NSW
> Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming

🥧 Experience

Susquehanna International Group Bot Hackathon
Sep 2022
Top 5 Placement
Sydney, NSW
> Implemented a bot to play the game of coup using Python from scratch.
> Collaborated with a team of 4 software engineers to design and implement bot behaviors and strategies.
> Improved the bot's performance through iterative testing and debugging.

🧪 Projects

BudgetSmart
> Designed and developed a budgeting application for students to track their spending and create a budget plan using **React Typescript** for the front-end and **Django Python** for the back-end.
> Utilized REST APIs to facilitate communication between the front-end and back-end.
> Implemented CRUD functionality to allow users to create, read, update, and delete budget categories and transactions which updates a **PostgreSQL** database.
> Applied responsive design techniques to optimize the application for various device sizes.

Equal Weight S&P 500
> Developed a program using **Python**, **Pandas**, and **Numpy** to create an equal weight S&P 500
> Created an algorithm to optimize getting stock information using batch GET request and creating chunks of the S&P 500
> Created visualization to present stock price, market capitalization, and number of shares to buy with **XlsxWriter**

ShopCart
> Developed a shopping cart web application using **React Typescript** that allows users to browse and purchase products.
> Implemented various front-end functionalities including adding and removing items from the cart, displaying the total price, and applying discounts.
> Utilized CSS Bootstrap to create a responsive and visually appealing layout.
> Improved skills in functional programming and type-safe development through the use of React Hooks and Typescript interfaces.

Dollar Cost Average Simulator
> Designed and developed a simple dollar cost average strategy using the **Alpaca API**
> Implemented user input features to specify stock or crypto purchases, duration, and the interval between purchases
> Automated stock purchases using the Alpaca API allowing purchases to be done conviniently

⚙️ Skills

Languages C++, Python, Java, Javascript, Typescript, Golang, Elm, SQL, R
Technologies React, VueJS, NodeJS, Django, Flask, Bash, Git, Linux/WSL
Tools Docker, Postman, GitLab