

Education

University of Sydney Sydney Sydney, AU

BENG (HONS) IN MECHATRONICS AND BSc IN COMPUTER SCIENCE

Feb. 2020 - Present

Weighted Average Mark: 85.7%
 Dean's List of Excellence in Academic Performance
 Dalyell Scholar

Experience

Project Assistant Sydney, AU

THE UNIVERSITY OF SYDNEY

Apr. 2021 - Present

- Working with the Archives and Records Management team as a PowerBi Dashboard developer
- · Developed many important dashboards used by other faculties and departments to provide useful insights on trends
- Optimised an existing console application to process records from the database faster for more frequent data updates on PowerBi

Software Engineer Sydney, AU

USYD ROCKETRY TEAM Feb. 2022 - Jun. 2022

- Working on the Ironbark team whose purpose is to develop a complete rocket modelling and simulation system which the other teams will
 eventually use
- Using an OOP approach with Python
- Continued collaboration and meetings with other student engineers to ensure a smooth workflow and integration of tasks

Software Engineer Intern
Sydney, AU

COMPANY: CUAVA 0ct. 2021 - Oct. 2022

- Working under a lead engineer, in a team of 6 people to help develop a satellite system, CubeOS
- Coding in Rust to maintain or refactor existing modules and create new ones

Android App Developer Sydney, AU

Company: Streamplate Jul. 2021 - Oct 2021

- Assisting new interns/employees who have joined the Front End team (such as the required tasks and how the APIs work)
- Communicate effectively with the Front End and Back End teams in order to implement new features and fix bugs
- · Responsible for pushing updates to the Play Store and reviewing feedback to improve user experience
- · Maintaining a high standard of work in the higher stress environment of a startup and considering which tasks to prioritise

Projects.

PERSONAL PROJECT

CHIP-8 Emulator

A CHIP-8 Emulator written in Rust using the sdl2 library for the interface and input controls

- Follows all the specifications outlined by the CHIP-8 Technical reference
- Consolidated understanding of low level programming and features such as ram, stack, registers and instructions

Stock Price Tracker

Code

ANDROID APPLICATION Jul. 2021

- A stock tracking tool for a web game's stock system that notifies a user when their selected triggers are reached
- Used Retrofit2 to make queries on the REST API and Services to make periodic queries while the app is closed.
- · Used an Object Relational Mapper (Android Room) for the SQLite database to provide robust and efficient data management
- Strictly follows the MVVM architecture to maintain a separation of concerns between UI, business logic and databases

Turret-Spinner • • • • Code

PERSONAL PROJECT • INDIE GAME

Jan 2022

Dec. 2021

· Component pattern used for making the code very modular

- State pattern used for implementing the bosses to encode more complex behaviour
- · Extensive use of OOP principles such as inheritance to reuse code and be able to effectively implement new game object ideas.

Skills

Languages C • Java • Python • MatLab • Kotlin • Rust • C# • Assembly

 Applications/Systems
 VScode
 • Android Studio
 • LaTeX
 • Linux/Unix
 • PowerBi
 • Linux/Unix
 • Content Manager