Education_

University of Sydney Sydney, AU

BENG (HONS) IN MECHATRONICS AND BSc IN COMPUTER SCIENCE

Feb. 2020 - Present

• Weighted Average Mark: 82.2% • Dean's List of Excellence in Academic Performance • Dalyell Scholar

Experience ____

Junior Records Developer

Sydney, AU

THE UNIVERSITY OF SYDNEY - ARCHIVES AND RECORDS MANAGEMENT DEPARTMENT

Apr. 2022 - Present

- · Developing and maintaining many PowerBi Dashboards used by many departments and teams across the uni
- · Rewrote critical backend applications with object oriented design patterns to optimise the running time by several hours using multithreading to sustain the increasing reporting requirements
- · Integrated feedback from clients to create insightful reports that are used to increase the productivity of University operations

Software Engineer Sydney, AU

USYD ROCKETRY TEAM Feb. 2022 - Jun. 2022

- · Contributed to the development of a rocket modelling and simulation system for the Ironbark team, which is critical to the iterative design of the physical rocket
- · Created a custom graphing and visualisation module using matplotlib, used during simulations
- · Communicated very frequently with other student engineers to ensure module compatibility and meeting project milestones

Software Engineer Intern Sydney, AU

Oct. 2021 - Oct. 2022 USYD CUAVA

- · Helped with the development of a CubeSat operating system, CubeOS, by working on new and existing modules such as the propulsion
- Taught myself about programming in Rust for low-level system architectures

Android Developer Sydney, AU

COMPANY: STREAMPLATE Jul. 2021 - Oct 2021

- Assisted new interns that joined the Front End team to understand the repositories
- · Communicated clearly and frequently with the Front End and Back End teams in order to implement new features and fix bugs
- Published updates to the Play Store and reviewed feedback to improve user experience
- · Maintained a high standard of work in the higher stress environment of a startup and prioritised urgent tasks for shareholders

Personal Website Code Code

PERSONAL PROJECT Jan. 2023 - Present

- · Learnt Next. js and Tailwind CSS to develop a fullstack application to display my portfolio and various other personal projects
- Used MongoDB as the database for some pages to create, update and fetch dynamic data

Turret-Spinner Code Code

PERSONAL PROJECT • INDIE GAME

Jan. 2022

Dec. 2021

- Utilised component pattern for making the code very modular and reusable
- State pattern used for encoding more complex behaviours for bosses
- Extensive use of OOP principles such as inheritance to reuse code and be able to effectively implement new game object ideas.

CHIP-8 Emulator Code Code

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

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

Skills

PERSONAL PROJECT

Languages Python • Java • C# • C++ • C • Typescript • HTML/CSS • MatLab • Rust • Assembly