Denver Klein Mesa

(+61) 0406 907 223 | denmesa24@outlook.com | linkedin.com/in/denver-klein-mesa | github.com/progkiryu

Education

University of Technology Sydney | 3rd Year **Completion of Studies: Spring 2026**

Bachelor of Engineering — Major in Software / Sub-Major in Information Security *Ultimo, Sydney, NSW*

- Academic Performance — **WAM: 82.90 / GPA: 6.32**
- Relevant Coursework: Programming 1 - 2, Database Fundamentals, Data Structures and Algorithms, Business Requirements Modelling, Systems Testing and Quality Management, Information Systems Development Methodologies, Software Development Studio, Information Security and Management, Network Fundamentals

Experience

Optik Consultancy **May 2025 – August 2025**

Software Engineering Intern *Sydney, NSW*

- Leading a Software Engineering team of 4 interns to produce and deliver a functional prototype, aligning to project requirements and coordinating tasks on both Jira and Confluence.
- Maintained ongoing communication and rapport with the client on Microsoft Teams, receiving critical feedback and ensuring the prototype's progression meets the business needs.
- Learning and incorporating frameworks such as React and Node to create a dynamic and user-friendly desktop application that utilises the MongoDB database for storage.

Projects

Cyclone Prediction AI | Source Code (UI) | Source Code (API) **Python | Blazor**

- Implemented SCRUM as the project's management methodology fostering team collaboration, efficiency and accountability. This was exemplified by our group's adherence to SCRUM principles and artefacts, including sprint planning, backlog, retrospective and roles to provide everyone unique responsibilities in tackling the design problem.
- Established an API via Python modules to connect our AI model to the Blazor website application in order for the generated results to be displayed.
- Developed an effective AI model that generates results that are consistent with the data provided from meteorology sources, constantly undergoing a learning cycle to improve accuracy.
- Created a visually simplistic website interface, based on Figma storyboard development, with quick-time responses to inputs which enhanced user experience, dynamic colour indicators for users to interpret statistical information, and displays a help page for users to understand resulting in improved user engagement.

ThreadFlow | Source Code **React | Node | Express | Electron | MongoDB**

- Front-end developed using a combination of the React framework for re-usable components and adaptability, and Node's desktop dependency of Electron to export the codebase as an executable file.
- Built for furniture company BrandFurniture, carefully migrating scattered data from Microsoft Excel spreadsheets to a desktop application, enabling ease of use via constant Figma re-designs and variety of sophisticated filtering and sorting algorithms.
- Utilises REST API to effectively handle HTTP requests made from the React front-end to the Express server and the MongoDB database.

MyGunplaList | Source Code **PHP | HTML | JS | CSS | Python**

- Utilised PHP in developing the back-end logic of the website application, dealing with session storage, MySQL query execution, directory creation and photo-file uploads.
- Implemented JS and CSS to provide a dynamic feel to the website by allowing real-time edits to each list item for convenience and toggling visibility of HTML components.
- Creates a website server using Python to handle HTTP requests and serving as a demonstration for the application.

Technical Skills

Languages: Python, C++, SQL, HTML5, CSS, PHP, JavaScript

Developer Tools: Git, Jira, LucidChart, Figma, Confluence

Libraries/Frameworks: MySQL, NodeJS, ExpressJS, ElectronJS, ReactJS