

Danison N

+61451445988 | danisonnjx@gmail.com | linkedin.com/in/danisonmg/ | github.com/IncreaseUnusual/

EDUCATION

University of Sydney

Bachelor of Computer Science and Data Science (Physics)

Jul. 2023 – Jan 2026

Sydney, NSW

EXPERIENCE

Software Engineer (Automation/API)

AiWorkFlo

Nov 2023 – Oct 2025

Sydney, NSW (Hybrid)

- Built automation scripts using **JavaScript**, **Node.js**, and **Selenium** for automation, enabling automated marketing messages and social media scheduling. Integrated **BeautifulSoup4** for web scraping.
- Refactored a **multi-lingual LLM** integrated with a client CRM using **LangChain** and **OpenAI API**, enabling automated appointment management/querying. Implemented a RESTful API and managed data flow with **PostgreSQL**.
- Developed a RESTful API using **Flask** that integrates with Plato (a popular clinic management software) with any CRM software for lead management/marketing.

Software Engineer (Systems/Web)

Zerimar

Mar 2025 – Jul 2025

Windsor, NSW

- Built a **React** + **FastAPI** chatbot for real-time subcontractor geolocation tracking and internal API job queries, reducing admin overhead.

Student Machine Learning Researcher

National Taiwan University

Nov 2024 – Feb 2025

Taipei, Taiwan

- Optimized fluid analysis model using **PyTorch** + **CUDA**, increasing detection accuracy by 20%.
- Improved leopard cat detection with **YOLO** and **Label Studio**, enhancing classification accuracy. ([NVIDIA Blog](#))
- Deployed **CI/CD** with GitHub Actions and **Docker**, enabling automated model testing and validation.

PROJECTS

Overwatch Ledger | *AWS, Solidity, Ethereum*

Jul 2025 – Ongoing

- Implemented a backend microservice in **Python** using **AWS Lambda**, **S3**, and **API Gateway** to extract, hash, and validate invoice data (e.g., unit price, quantity) against original purchase orders.
- Implemented immutable audit logging by storing document hashes on **Ethereum** via **Solidity smart contracts** and **Web3.py**, enabling fraud detection through hash mismatch checks.

Qup App | *React (TS), Django, PostgreSQL, Firebase*

Apr 2024 – Dec 2024

- Built a minimalist restaurant wait-list web app with a **React** front-end and **Django** backend, enabling real-time queue management for walk-in customers.
- Integrated a **PostgreSQL** database for persistent wait-list storage and user data.
- Deployed the application on **Firebase**.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, R, TypeScript

Frameworks/Tools: Flask, Django, Docker, React, Nginx

Cloud/Infra: AWS (EC2, S3, RDS, Lambda), PostgreSQL, MongoDB, Firebase, Vercel

Blockchain: Solidity, Ethereum