

EXPERIENCE

• Buildmat

Dandenong South, VIC, Australia

Data Engineer

November 2023 - Present

- **Automated Market Monitoring System:** Developed a monitoring system to aggregate market insights, integrating into an end-to-end AWS ETL pipeline for data analysis. The system processes over 1 million transactions per day, providing a real-time dashboard with analytics and market insights, significantly contributing to the company's expansion strategy.
- **Warehouse Management System Contributions:** Contributed to packing algorithm design and implemented new data pipelines to optimize the logistic and order management procedures. Ensured data integrity across various in-house systems and warehouse management systems. Managed over 500,000 data entries across all platforms.
- **API Development:** Developed robust APIs to facilitate efficient data management and utilization across cross-functional teams. Automated data acquisition process for multiple projects. Provided data for more than 15,000 products, improving the data capture performance up to 5 times.
- **Technologies:** Python, FastAPI, Playwright, PostgreSQL, MongoDB, AWS, Apache Airflow, NodeJs, Streamlit, PowerBI.

• Applied Artificial Intelligence Institute (A2I2)

Burwood, VIC, Australia

AI Engineer Intern

March 2023 - October 2023

- **Expert Identification Model:** Developed a semantic search engine for expert identification, implementing a hybrid approach integrating Large Language Models, Graph-based Models, and Clustering Algorithms with custom datasets. Achieved a 15% accuracy improvement compared to single-method approach.
- **Expert Link Application:** Launched a beta web application allowing users to identify and generate relevant expert connections from specific domains, long-text queries, and expert profiles.
- **Technologies:** Sentence-BERT, GPT, RAG, Langchain, UMAP, HDBSCAN, PageRank, TensorFlow, FastAPI, ChromaDB, Neo4J, NetworkX.

• Department of Education and Training

Melbourne, VIC, Australia

Specialist Technician - Contractor

March 2023 - December 2023

- Configured, managed, and maintained curriculum and admin networks, servers, and educational smart devices. Managed the Windows Server 2016 environment, MDM services, and Microsoft Intune Services
- Implemented automation procedures for several server management tasks, reducing administrative workload by 25%.

EDUCATION

Deakin University

Burwood, VIC, Australia

Bachelor of Computer Science

March 2019 - July 2023

- Specialization in Artificial Intelligence and Data Science.
- WAM: 82/100.
- Recipient of Deakin's International Student Scholarship.

PROJECTS

- **E-Commerce App** - Ongoing: Developing a robust full-stack E-Commerce platform, featuring comprehensive backend services for authentication, products and inventories. Technologies: MongoDB, Express, React, Prisma, Redis
- **GoIDM:** Replicated the popular Internet Download Manager in Golang, integrating PocketBase as a Backend-as-a-Service (BaaS) to manage backend services. Designed and implemented efficient file downloading, management, and storage functionalities
- **Breaking Captcha:** Developed a web tool employing Computer Vision models to solve different CAPTCHA types efficiently.