

 $\Box$  (+61) 431 888 818 lnnb.imc@gmail.com

#### EXPERIENCE

• Buildmat

Dandenong South, VIC, Australia

December 2023 - Present

Data Engineer

- **Promotion and Expanded Responsibilities:** Promoted to Data Engineer, responsible for developing and managing scalable, cloud-hosted PostgreSQL and MongoDB databases, optimizing real-time data accessibility and processing efficiency.
- Automated Data Capture System: Developed a monitoring system to aggregate market insights, integrating into an end-to-end ETL pipeline using AWS and Apache services. 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 (WMS) Contributions: Enhanced in-house WMS tools for logistics, packaging, and order management. Contributed to packing algorithms design and implemented data pipelines to optimize the logistic process.
- **API Development:** Developed robust APIs to facilitate efficient data management and utilization across cross-functional teams.
- Technologies: Python, FastAPI, Playwright, PostgreSQL, MongoDB, AWS, Apache Airflow, NodeJs, Streamlit, PowerBI.

Data Specialist

July 2023 - December 2023

- Automated data acquisition process for multiple projects. Provided data for more than 15,000 products, improving the data capture performance up to 5 times.
- Maintained data integrity and developed data processing pipelines for several in-house and WMS systems. Handled over 500,000 data entries across all platforms.

# • 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 3.5, 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**

Bachelor of Computer Science

Burwood, VIC, Australia

March 2019 - July 2023

- Specialization in Artificial Intelligence and Data Science.

- WAM: 82/100.
- Recipient of Deakin's International Student Scholarship.

# **PROJECTS**

- Breaking Captcha: Developed a web tool employing Computer Vision models to efficiently solve different CAPTCHA types.
- RecycleNet: Developed a Streamlit application leveraging a fine-tuned Vision Transformer model for classifying recyclables according to Victoria's regulations, with 92% accuracy on the TrashNet dataset.