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EXPERIENCE

• Buildmat

Data Engineer

Dandenong South, VIC, Australia

Aug 2023 - Present

- **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 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 (WMS) Contributions: Streamlined procedure for logistics, packaging, and order management. Contributed to packing algorithms design and implemented data pipelines to optimize the logistic process. Ensured data integrity across various in-house systems and warehouse management systems (WMS). 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)

AI Engineer Intern

Burwood, VIC, Australia 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

 $Specialist\ Technician\ -\ Contractor$

Melbourne, VIC, Australia

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

- 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
- 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.