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EXPERIENCE

AI Singapore

Associate AI Engineer

Nov 2024 – Jun 2025

- Successfully delivered [Project Aquarium](#), a collaborative project by AI Singapore, Google, and various ASEAN stakeholders.
- Led the design of a **PostgreSQL (pgvector extended)** database to cater to and enable semantic search capabilities for an underlying agentic **RAG** system implemented using **LangGraph**.
- Developed robust Pydantic validated REST API endpoints served with **FastAPI**.
- Leveraged **Google Gen AI SDK** to implement AI integrated data post-processing pipelines to enrich the quality of dataset metadata.
- Built an internal CRUD application to improve the overall data management experience for the team with **Streamlit**.
- Implemented various dynamic **React** components for the live production **NextJS** webapp.

AI Apprentice

Sep 2024 – Nov 2024

- Completed a rigorous 2-month deep-skilling program that spanned across various machine learning domains including **Computer Vision** and **Natural Language Processing**.
- Acquired hands-on experience with **PySpark** to process big data and **MLFlow** for model tracking,
- Engaged in multiple knowledge-sharing sessions with fellow apprentices, including demonstrating how Bayesian posteriors can be modelled to optimize model selection in response to data drift.
- Mentored a subsequent batch of AI Apprentices on **Time Series Analysis**.

FDM Group

Software Developer

Oct 2023 – May 2024

- Collaborated with fellow FDM trainees in Singapore and Hong Kong to develop **Java** based POCs using **Spring Boot**, **Hibernate ORM**, **SQL**, and **React**.
- Leveraged **Postman** to automate API testing, and **JUnit** and **Mockito** for unit tests for Java applications.
- Implemented automated actions using record-triggered flows as part of a capstone project during **Salesforce** training.
- Actively applied **Agile** practices to enhance adaptability and project delivery efficiency.

EDUCATION

Nanyang Technological University, Singapore

Aug 2018 – Dec 2022

School of Physical and Mathematical Sciences

Bachelor of Science (Honours), Mathematics and Economics

CO-CURRICULAR ACTIVITIES & COMMUNITY SERVICES

Head of Logistics @ NTU Inline Skating Club

2019

Volunteer Tutor @ Taman Jurong Community Centre

2019

SKILLS

AI/ML Engineering – LangChain | PyTorch | TensorFlow | PySpark | MLFlow | Streamlit | Gradio

Backend – Python | FastAPI | SQLAlchemy | SQL (PostgreSQL, MySQL) | Java | Spring Boot | Hibernate

Frontend – React | NextJS | TanStack Router | Vite

DevOps/Tools – Git | Docker