

AMOS LOH

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EDUCATION

SINGAPORE INSTITUTE OF TECHNOLOGY

Sep. 2025 – Present

Bachelor of Science (Honors) in Applied Artificial Intelligence.

Focus Areas: Data Analytics, Machine Learning, Statistical Modelling, Decision Support Systems

EXPERIENCE

ORACLE CORPORATION SINGAPORE

Sep. 2022 – Feb. 2023

Cloud Engineering Intern

- Designed cloud-based data analytics workloads for system performance monitoring and operational reporting
- Developed technical overviews demonstrating how large-scale data platforms enable real-time analytics and evidence-based decisions
- Configured and operated managed databases and machine learning services in regulated enterprise environments, following security and compliance requirements

PROJECTS

PRISM | *React, Express, TypeScript, Socket.io*

Sep. 2025 – Nov. 2025

- Attained 2nd place at HacX! 2025, organised by HTX and Microsoft, for retrofitting prison vehicles
- Engineered a prison transport management system enabling real-time inmate and vehicle telematics monitoring
- Architected real-time data synchronisation with inspections and audit logging across 15+ endpoints
- Coordinated with cross-functional teammates to ship an interactive demo showcasing edge computing potential for real-time vehicle monitoring and inmate safety in correctional transport scenarios

Dynamic Price Prediction | *Flask, PyTorch, Plotly, Microsoft SQL Server*

Apr. 2022 – Aug. 2022

- Re-engineered historical datasets and database schemas to meet strict client data requirements
- Built an ensemble forecasting model combining LSTM and regression methods for time-series price prediction
- Implemented scheduled model retraining with Windows Task Scheduler to ensure model validity over time
- Developed a web-based dashboard to visualise forecasts and track model outputs for stakeholders

HuBERT | *Haystack, Elasticsearch, SQLite, Streamlit, Docker*

Oct. 2021 – Mar. 2022

- Built an end-to-end human resources NLP system for document indexing, semantic search and retrieval using transformer-based models
- Integrated Haystack pipelines for document ingestion, embedding generation and semantic retrieval
- Designed a human-in-the-loop feedback workflow to flag low-confidence outputs for manual review, supported by a custom annotation tool

LEADERSHIP

SINGAPORE INSTITUTE OF TECHNOLOGY DARTS CLUB

Sep. 2025 – Present

Co-founder, Treasurer

- Co-founded SIT Darts Club and grew membership to 150+ within first trimester
- Established governance processes for membership records and financial tracking
- Managed publicity, inter-club coordination, budgeting, approval workflows, and expenditure reporting

CERTIFICATIONS

NVIDIA Fundamentals of Deep Learning

Alibaba Cloud Computing

Google Data Analytics

Azure AI Fundamentals

Oracle Data Science Professional

Oracle Cloud Autonomous Database Professional

Oracle Cloud Architect Associate

Oracle Cloud Data Management Associate

Oracle Cloud Machine Learning Associate

Oracle Cloud Foundations Associate