

WORK EXPERIENCE

Huawei Singapore, Singapore, May 2026 – Present

Advertising AI Algorithm Engineer Intern

- Constructed multi-modal representation of advertisements for recommendation engines through open-source pre-trained models.

Singapore Management University (SMU), Singapore, Dec 2025 – Mar 2026

Student Research Assistant

- Assisted in data verification and validation in using data science and machine learning approach to predict semiconductor material properties.
- Performed data cleaning, pre-processing and context-aware imputation for sparse data that are over 16,000 rows.
- Demonstrated **exceptional self-discipline** and **autonomy** in a remote, part-time role, independently mastering new concepts and tools, and consistently meeting deadlines without direct supervision.

Agency for Science, Technology and Research (A*STAR), Singapore, May 2025 – Aug 2025

Full-Stack Developer Intern

- Designed data schema and constructed back-end processes with adequate validations to ensure system security and data integrity of a software as a service (SaaS) development tool system.
- Implemented a modular user interface for a graph-based, low-code drag and drop AI orchestration tool other developers can use to create, organise and visualise customised data pipelines and processes.
- Planned, integrated and published a recommendation system utilising live data, enabling client adoption of low-code tool and contributing to a \$500K enterprise contract.

Infollective Solution Co, Malaysia, May 2024 – Aug 2024

Front-End Web Developer Intern

- Collaborated closely with a development team of 9 members to link backend services to NextJS frontend, create UI styles templates and conduct A/B testing.

CO-CURRICULAR AND VOLUNTEERING ACTIVITIES

SMU Ivory Keys, Singapore - *Logistics Director*

- Acted as the primary liaison for venue allocation, **negotiating solutions** for scheduling conflicts while maintaining positive relationships with other clubs.

SMU Inspirar, Singapore - *Volunteer*

- Cultivated a supportive environment by engaging in empathetic dialogue with elderly individuals, successfully bridging generational gaps through **patience** and **understanding**.

PROJECTS AND HACKATHONS

TariffCalc Pro, Aug 2025 – Nov 2025

- Developed a web application for exporters to calculate tariff rates and get tariff predictions from live news.
- Coded CI/CD pipeline using GitHub actions to streamline deployments onto AWS.
- Constructed cloud infrastructure using Terraform to standardize infrastructure setup, maintenance and tear down.

Acadiverse, May 2025 – Jul 2025

- Created and deployed an automated information retrieval and categorization system with NLP techniques, enabling students to access academic events via a centralized platform.
- Managed a cross-functional team of 5, coordinating efforts across business, psychology (UX), and engineering disciplines to leverage on domain expertise to deliver a high-impact solution, demonstrating **strong leadership skills**.

SteelSense, May 2025

- Built several AI models, including time-series models and DNN models to predict steel consumption in Singapore based on historical data of multiple consumption factors for steel manufacturers.
- Developed an AI-powered dashboard to forecast Singapore's steel consumption demand, suggests actionable insights from live news and categorises recommended actions based on priorities using Large Language Models.

NaviHealth, Oct 2024

- Built a web application for news-aware port routing and developed a port digital twin to enable predictive maintenance using regression models.

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EDUCATION

Singapore Management University

BSc. Computer Science

AI & Software Systems

Second major in **Finance**

Aug 2024 – May 2028 (expected)

CGPA: **4.0/4.0**

ASEAN Merit Scholarship

IMDA SG Digital Scholar

Dean's List for all applicable terms

AWS SAA Certified

SKILLS, INTERESTS AND

CERTIFICATIONS

Languages

- Python, JavaScript, TypeScript, Java, C++, SQL

ML / Data

- ML / Data: TensorFlow, Keras, NLTK, Pandas, NumPy, Scikit-learn

Frameworks

- React, NextJs, NodeJs, Flask, FastAPI, Spring Boot

Systems / Cloud

- AWS, Azure, Docker, Terraform
- PostgreSQL, MongoDB

Language Spoken

- English, Mandarin, Malay, Hokkien

RESEARCH

Alternative Inertial Tracking Protocol for Whiteboard AirPen - Science Research Programme (NUS)

Jul 2022 – Mar 2023

- Proposed and implemented digital filters to suppress noise in inertia tracking protocols for airpens (digital devices with inertial tracking capability that are connected wirelessly to the host device), allowing users to write on-screen in air.

Distributed Machine Learning for

Language Recognition - Science

Mentorship Programme (NTU)

Jul 2020 – Jun 2021

- Implemented a LSTM RNN model to predict next words in Singapore's texting context on distributed machines.