

NG TZE KEAN (吴子健)

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🎓 EDUCATION

Nanyang Technological University

Aug 2021 – Jul 2025

Bachelor in Computer Science

Singapore

- CGPA: 4.92/5.0 (Highest Distinction Honours) | Dean's List all years applicable
- Specialization in AI, Minor in Business
- Valedictorian of class 2025, Koh Boon Hwee Scholar Awardee

🌐 EXCHANGE UNIVERSITIES

Peking University

China, Jul 2024 – Jul 2024

Scholarship offered for summer program

Shanghai Jiao Tong University

China, Jan 2024 – Jun 2024

Reinforcement learning and Cyber security

University Michigan - Shanghai Jiao Tong University

China, Jan 2024 – Jun 2024

Machine learning in Python

Tsinghua University

Singapore (Virtual), Aug 2023 – Dec 2023

Big data systems and deep learning

National University of Singapore

Singapore, Jan 2023 – May 2023

Software engineering and Database systems

💼 PROFESSIONAL EXPERIENCE

Data Scientist

Dec 2024 – Present

Flo Energy Pte Ltd | Supervisor: Nils Trepstra [Head of Data & Analytics]

Singapore

- Predictive modeling of demand and supply of the energy market implementation using Tensorflow, Scikit-learn for modeling and simulation via building dedicated libraries
- Battery Energy Storage Systems (BESS) simulation and analysis to drive new revenue stream
- Streaming of dataset during training and testing for production simulation and enforcement of data masking using sliding window methodology
- Feature engineering and time series analysis in Python using packages like Pandas, Numpy

Data Analyst Intern

Jun 2023 – Dec. 2023

ADDX Pte Ltd | Supervisor: Yogesh Bharadwaj [Data team lead]

Singapore

- Managing and optimizing overall of 30 database tables some containing over 3-million entries in Snowflake and configurations through DBT for analysis and intelligence gathering
- Real-time and historical data monitoring for development and production use case
- Developed over 4 department personalized dashboards for data visualization (Power BI, Py Plotly) for internal departments and Key Management to provide business intelligence
- Engineered 6 predictive analytics machine models to aid the sales department in driving revenue. Both supervised and unsupervised models were developed and results fed into dashboards

Finance Intern

May 2023 – Jun 2023

Wiz.AI Pte Ltd | Supervisor: Andy Teo [Finance director]

Singapore

- Preparations of key account statements (BS, P&L)
- Improving existing financial tracking processes and workflows for financial and managerial accounting

Data Analyst Intern

May 2022 – Aug 2022

REANGLE Pte Ltd [Sustainability] | Supervisor: Kazu Watanabe [CEO]

Singapore

- Conceptualized green finance business model through data analytics
- Developed targeted green strategies for sectors and executed digital marketing strategies
- Formulated actionable tactics to promote green businesses
- Promoted sustainable growth in alignment with SG goals through good ESG practices

Engagement & Strategy Intern

Nov 2020 – Apr 2021

Ministry of Health | Supervisor: Weng Chee

Singapore

- Administration of online telemedicine E-training (COVID-19)
- Streamline processes in MOH LEAP Sandbox team with Python

Platoon Commander

Jan 2019 – Nov 2020

Singapore Armed Forces

Singapore

- Officer Cadet School (Logistics Formation) 115/19 - Top Graduate, Sword of Honour

🔗 RESEARCH PROJECTS

Streamsight: A toolkit for offline evaluation of RS

Jan 2024 – Dec 2024

FYP, grade obtained: A+ | Supervisor: Prof. Sun Aixin [Associate Dean Academics]

- Python, Recommender System, System architecture design, Machine learning techniques
- Evaluation framework to account for temporal dynamics of user/item interactions through sliding window implementation and streaming of dataset to RecSys to capture realistic data communication

Improving Localization Robustness of ORB-SLAM with Dual Cameras

Aug 2022 – Jun 2023

NTU President Scholar (Merit) | Supervisor: Prof. Lam Siew Kei [Assistant Chair Admission]

- Embedded system (Nvidia Jetson Nano), GStreamer, ROS, ORB-SLAM, OpenCV, Linux
- Develop dual-camera framework to be used in conjunction with ORB-SLAM to increase the feature points for better localization of agent

🏠 SCHOOL PROJECTS

AI Related

- Pytorch, Tensorflow implementation of recurrent and transformer models for sentiment analysis
- LLMs from huggingface for data augmentation to support downstream tasks

Data Science Related

- EDA and machine learning (predictive modeling) to forecast future prices
- B+ tree, Query planning implementations in database management systems

🏆 AWARDS

- Valedictorian of college (2025)
- Genk Capital Scholarship (2024)
- Tan Sri Runme Shaw Scholarship (2023)
- Ng Bok Eng Scholarship (2023)
- NTU President Scholar, Merit (2023)
- Dean's list all years applicable

🏆 HACKATHONS

- China Global Innovation Competition Joint prosthesis (2024)
- NTU SCSE TechFest Hackathon, 1st runner up (2024)
- TikTok Hackathon Challenge, Finalist (2023)
- SUTD Hackathon, Champion (2023)

💼 BUSINESS MODULES

- Investments
- Business Finance
- Accounting
- Business Law
- Management

💻 COMPUTING MODULES

- Reinforcement learning
- Big data management, Database
- Natural language processing
- Machine learning, Deep learning
- Operating system

🌟 QUALITIES

- MBTI: ENTJ
- English, Chinese proficient
- Worked in cross functional teams
- Python, SQL, Java, C
- Env (Window, MacOS, Linux)

👤 LEADERSHIP

- NTU Ambassador 2024 - 2025
- NTU College (CCDS) Ambassador 2021-2024
- NTU Overseas (GEM) Ambassador 2024
- NTU College (COE) Ambassador 2021-2023
- EXCO, NTU-Dyson ambassador 2021-2022
- EXCO, NTU Aikido 2021-2022

★ MAJOR ACHIEVEMENTS

- Appointed and represented NTU locally and globally in key partnership events such as Singapore-Sweden dialogue in NTU where I hosted the King of Sweden.
- Gathered over 48 donors and raised 1.49k for NTU Bursary fund raising in 2023 and subsequently invited to join the panelist in NTU giving day to share more about the importance of giving back to the community.
- Dean's list all years applicable along with multiple scholarships and awards from NTU and partner organisations.
- Invited to consistently participate in NTU's leadership and ambassadorial programs to represent the student body in fund raising and donor appreciation.

💡 CURRENT INTERESTS

- Design and building of predictive model architecture for forecasting and enhancing decision making
- Applications in NLP through langchain to create agentic workflows