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 (First class honors)
- Specialization in AI, Minor in Business
- Valedictorian of class 2025
- Koh Boon Hwee Scholar Award Nominee

🌐 EXCHANGE UNIVERSITIES

Peking University   **Tsinghua University**
China, Jul 2024 – Jul 2024   Singapore (Virtual), Aug 2023 – Dec 2023
Scholarship offered for summer program   *Big data systems and deep learning*

Shanghai Jiao Tong University   **National University of Singapore**
China, Jan 2024 – Jun 2024   Singapore, Jan 2023 – May 2023
Reinforcement learning and Cyber security   *Software engineering and Database systems*

University Michigan - Shanghai Jiao Tong University
China, Jan 2024 – Jun 2024
Machine learning in Python

💼 PROFESSIONAL EXPERIENCE

Flo Energy Pte Ltd   **Dec 2024 – May 2025**
Data Analytics | Supervisor: Nils [Data Lead]   *Singapore*
- Building Dagster pipeline for ingestion of data from various sources into snowflake for analysis and machine learning models
- Developing machine learning models for predictive analytics to forecast demand and supply of energy market and clients
- Developing and maintaining data visualization dashboards for internal and external stakeholders

ADDX Pte Ltd   **Jun 2023 – Dec. 2023**
Data Analytics Intern | Supervisor: Yogesh [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

Wiz.AI Pte Ltd   **May 2023 – Jun 2023**
Finance Intern | 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 accouting

REANGLE Pte Ltd [Sustainability]   **May 2022 – Aug 2022**
Data Analyst Intern | Supervisor: Kazu Watanabe [FCEO]   *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

Ministry of Health   **Nov 2020 – Apr 2021**
Engagement & Strategy Intern | Supervisor: Weng Chee   *Singapore*
- Administration of online telemedicine E-training (COVID-19)
- Streamline processes in MOH LEAP Sandbox team with Python

Singapore Armed Forces   **Jan 2019 – Nov 2020**
Platoon Commander   *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

- 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
- Full stack programmer
- Data analytics in Finance
- Env (Window, MacOS, Linux)
- English, Chinese proficient

💬 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 diagloue in NTU
- 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 consistenly 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
- RL applications in NLP and optimization techniques