

LI YUXIAO

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EDUCATION **Nanyang Technological University** Singapore
School of Physical and Mathematical Sciences 2023 - 2027(*expected*)
• Bachelor of Science in Mathematical and Computer Sciences (Double Major)

EXPERIENCE **KLASS Engineering and Solutions** | Singapore Jan 2026 - Present
• Refactor a backend system by transitioning existing code to a FastAPI framework to improve performance and maintainability.
• End-to-End Chatbot Development: Support full-stack feature development, debugging, and maintenance for the chatbot application. (*upcoming*)
• Release Management & QA: Assist with application shipping processes, including unit testing and deployment pipelines. (*upcoming*)

URECA: VR Analysis and Feedback System | Singapore Aug 2025 - Present
• Analyze multimodal data (e.g., eye-tracking, physiological signals) from VR simulations to evaluate user performance and provide feedback

SRIT Information | Ningbo, China July 2025 - Aug 2025
• Engineered a Model Context Protocol (MCP) server backend for cancer diagnosis support system
• Incorporated a Retrieval-Augmented Generation (RAG) model to query local diagnosis documentation, improving answer relevance by 10%

URECA: Fake News Identification | Singapore Aug 2024 - June 2025
• Engineered a novel three-stream fake news detection model in Python using PyTorch, integrating BERT-BiLSTM, CNN-MHSA, and an interpretable KAN, achieving 98.4% accuracy on benchmark datasets
• Under the supervision of Professor Kang Hao Cheong and in collaboration with Dr. Hu Shiyu, presenting progress in bi-weekly meetings
• Authored a research paper detailing the model architecture and experimental findings

Stanford Pre-Collegiate Summer Institutes | CA, US (Remote) July 2022 - Aug 2022
• Analyzed public COVID-19 datasets using R (dplyr, ggplot2) to identify transmission trends, contributing to a personal project that earned an A+ performance rating

Utech Deep Learning Camp | Shanghai, China Jan 2021, July 2021
• Applied computer vision techniques using Python and OpenCV to implement an object identification program, obtaining 92% accuracy.

AWARDS AND HONORS • **Meritorious Award**, High School Mathematical Contest in Modeling 2023.11
• **Third Place**, AI Olympics Challenge, Yangtze Delta Area (Shanghai) 2023.05

PROJECTS **Course Schedule Website** 2025
• Architected a dynamic scheduling application with Next.js, TypeScript, and Tailwind CSS to address inefficient manual course planning.
• Collaborated with a two-person backend team to integrate their schedule generation API and partnered with another four-person team by enabling calendar API exports, contributing to a platform that attracted over 2,000 unique visitors in its first month.

Junior College Discovery Minigame	2025
<ul style="list-style-type: none"> • Collaborated within a six-person team to develop an interactive student orientation game; engineered the navigation system by integrating Singapore's OneMap API. • Delivered a key feature allowing users to simulate routes to school via various transportation methods, complete with estimated travel times, enhancing user engagement. 	
Hospital Management System	2024
<ul style="list-style-type: none"> • Engineered the core appointment management logic for a hospital appointment system as part of a five-person team, delivering the foundational features for doctors and patients to schedule, confirm, and cancel appointments. 	
Word-frequency Analysis on "A Dream in the Red Mansion"	2022
<ul style="list-style-type: none"> • Engineered an NLP pipeline in Python; applied TF-IDF for vectorization, K-Means to cluster chapters, and PCA for dimensionality reduction to visualize the novel's thematic structure. 	
Image Identification Program for Domesticated Plants	2022
<ul style="list-style-type: none"> • Addressed the need for automated plant disease detection by building a model to automatically identify and classify disease in Python with Tensorflow, achieving over 90% classification accuracy on leaf images 	

SKILLS

Languages: Chinese (Native), English (Proficient)

AI/ML: PyTorch, TensorFlow, Scikit-learn, Pandas, OpenCV

Programming: Python, Java, C++, R, LaTeX, JavaScript, HTML/CSS, Elisp

Developer Tools: Git, GitHub, Docker, Emacs, JetBrains IDEs

Platforms: MacOS, Linux (Debian, Fedora, Ubuntu)