

LI YUXIAO

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

- 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

- 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

- 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)