

LI YUXIAO

(+65) 8351-9119
yuxiaolio206@gmail.com (personal)
<https://morilindo.github.io/>

EDUCATION	<div><div>Nanyang Technological University</div><div>Singapore</div><div>School of Physical and Mathematical Sciences</div><div>2023 - 2027<i>(expected)</i></div><div><ul style="list-style-type: none">Bachelor of Science in Mathematical and Computer Sciences (Double Major)</div></div>
EXPERIENCE	<div><div><div>URECA: VR Analysis and Feedback System Singapore</div><div>Aug 2025 - Present</div><div><ul style="list-style-type: none">Analyze multimodal data (e.g., eye-tracking, physiological signals) from VR simulations to evaluate user performance and provide feedback</div></div><div><div>SRIT Information Ningbo, China</div><div>July 2025 - Aug 2025</div><div><ul style="list-style-type: none">Engineered a Model Context Protocol (MCP) server backend for cancer diagnosis support systemIncorporated a Retrieval-Augmented Generation (RAG) model to query local diagnosis documentation, improving answer relevance by 10%</div></div><div><div>URECA: Fake News Identification Singapore</div><div>Aug 2024 - June 2025</div><div><ul style="list-style-type: none">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 datasetsUnder the supervision of Professor Kang Hao Cheong and in collaboration with Dr. Hu Shiyu, presenting progress in bi-weekly meetingsAuthored a research paper detailing the model architecture and experimental findings</div></div><div><div>Stanford Pre-Collegiate Summer Institutes CA, US (Remote)</div><div>July 2022 - Aug 2022</div><div><ul style="list-style-type: none">Analyzed public COVID-19 datasets using R (dplyr, ggplot2) to identify transmission trends, contributing to a personal project that earned an A+ performance rating</div></div><div><div>Utech Deep Learning Camp Shanghai, China</div><div>Jan 2021, July 2021</div><div><ul style="list-style-type: none">Applied computer vision techniques using Python and OpenCV to implement an object identification program, obtaining 92% accuracy.</div></div></div>
AWARDS AND HONORS	<div><div><ul style="list-style-type: none">Meritorious Award, High School Mathematical Contest in ModelingThird Place, AI Olympics Challenge, Yangtze Delta Area (Shanghai)</div><div><div>2023.11</div><div>2023.05</div></div></div>
PROJECTS	<div><div><div>Course Schedule Website</div><div>2025</div><div><ul style="list-style-type: none">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.</div></div><div><div>Junior College Discovery Minigame</div><div>2025</div><div><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.</div></div></div>

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)