

EDUCATION

Nanyang Technological University, Singapore Aug 2022 - May 2026
Bachelor of Science in Mathematics and Computer Science, 4.43

- Coursework: Software Engineering, Data Analytics, Machine Learning, Computer Vision, NLP

University of Groningen, Netherlands Sep 2024 - Jan 2025
Overseas Exchange Programme

- Coursework: Statistics, Neural Networks, Web Engineering, Information Security

EXPERIENCE

That Remote Company Aug 2025 - Present
Initiative under NTU

- Skills Developed: Embedded Systems Software Engineering, AI powered Image Recognition
- Software Engineering: Created a prototype with 10+ users hosted on <https://healthsync.streamlit.app/>

Seagate Technology Feb 2025 - Aug 2025
Data Science Intern

- **Full Stack Development:** Overhauled 2 legacy Tkinter apps to Streamlit delivering a modern, responsive web UI/UX and refactored backend into modular services boosting maintainability, scalability, and driving usage to 90%.
- **Data Engineering:** Implemented Extract, Transform, and Load (ETL) pipelines to streamline data processing, accelerating analytics insights generation by 80%.
- **Machine Learning:** Developed a computer-vision preprocessing pipeline with OpenCV to automate data cleaning and labelling for 10K+ images, cutting manual labelling time by 95%.

PROJECTS

Personal Portfolio Website Jul 2024 - Present
Self Developed

- Hosted GitHub Pages with version control Git showcasing past projects. <https://roylimxinwei.github.io/>
- Designed and deployed a responsive, SEO-optimized portfolio website using HTML, CSS, and JavaScript.

Weather Forecast Web Application Sep 2024 - Jan 2025
Group Member

- Designed a Level 3 (HATEOAS) RESTful API for CRUD operations achieving 90% coverage with Postman and unit tests.
- Applied Model View Controller (MVC) design pattern to organize and maintain scalable, maintainable code.
- Reduced deployment time by 40% by using Docker containers for environment consistency on virtual machine.

Jiak! Mobile Application Jan 2024 - May 2024
Team Leader

- Lead a team through agile software development lifecycle, overseeing sprint planning, weekly stand-ups, and retrospectives to ensure on-time feature delivery.
- Leveraged Google Maps geo-location API to recommend food to users within 100 meters.
- Built a cross-platform mobile application with React Native, delivering identical iOS/Android UIs, reduce code duplication by 40% and halved development time.
- Implemented Expo for streamlined development and automated deployment pipelines, cutting build times by 25% and improving application performance on diverse devices.

CERTIFICATIONS

- Google Advanced Data Analytics (Coursera)
- Google AI Essentials (Coursera)
- Google UI/UX Design (Coursera)
- Google Data Analytics (Coursera)

CO-CURRICULAR ACTIVITIES

Anytime Fitness May 2023 - Aug 2024
Brand Ambassador

- Foster community engagement and promote brand awareness both on and off-campus leading to new monthly sign ups.