

Yu-Wei Kuan 官毓韋

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Education

National Taiwan University Sep 2026 - Expected Jun 2028
Master's program in Computer Science and Information Engineering
MSLab; advisor: Shou-De Lin.

National Taiwan University Sep 2022 - Jun 2026
BSc in Computer Science and Information Engineering
Specialization: Machine Learning and Artificial Intelligence.

Experience

PicSee Inc. Jun 2026 - Present
Full-Stack Software Engineer Intern

- Containerized web and crawler services with Docker Compose and supported database migrations.
- Developed Chrome extension features and integrated backend APIs.
- Implemented crawler refresh controls and fixed database write error handling.

Garmin Taiwan Jul 2025 - Jan 2026

R&D Software Engineer Intern, Data Tech Team, Auto OEM

- Maintained navigation software and developed and trained estimated time of arrival (ETA) prediction models.

National Taiwan University Spring 2024; Fall 2024; Spring 2025

Teaching Assistant, Data Structures and Algorithms; Machine Learning

- Created DSA programming problems and led the programming group in 2025.
- Supported DSA and ML students through office hours and course discussions; graded ML coursework and advised final projects.

IOICamp Jan 2025; Jan 2024

Lead Teaching Assistant (2025); Teaching Assistant (2024)

- Advanced competitive programming camp.

Academia Sinica Jul - Aug 2024

Summer Research Assistant Intern, Institute of Information Science

- Conducted research in speech and natural language processing.

Research & Projects

From Human Annotation to Automation:

Sep - Dec 2024

Leveraging VLMs for Large-Scale Complementary Datasets

- Co-authored a **PAKDD 2025** paper during undergraduate research. Used VLMs to generate ordinary and complementary image labels and compared results with human annotations. Contributed to prompt/process design and experimental data collection. Python. [Paper] [Dataset]

CSIE Council Website

Sep 2024 - Jun 2025

- Developed frontend and backend features for the NTU CSIE Council website using TypeScript and Next.js. [Frontend] / [Backend]

Weather Microservices of TaipeiPASS

Sep 2024

- Built a weather microservice for TaipeiPASS displaying radar echoes and rainfall forecasts; received an **Honorable Mention at Taipei CodeFest 2024 Fall**. Flutter, JavaScript, Python.

CSIE Challenge

Jun - Jul 2024

- Collaborated with teammates to develop a Python game in which students compete through programmed AI strategies.

Skills

Programming: Python, TypeScript, JavaScript, C/C++

Web: Vue.js, Nuxt, React, Next.js, Node.js

Databases & Tools: SQL, PostgreSQL, MySQL; Docker Compose

Machine Learning: PyTorch, TensorFlow

Languages: Mandarin Chinese (native), English (TOEIC 920/990), Japanese (JLPT N3)