

YA-CHI YU

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EDUCATION

National Sun Yat-sen University (NSYSU), Kaohsiung, Taiwan Sept. 2021 – Jun. 2025

B.I.M in Information Management (Program in Software Engineering)

- Cumulative GPA: 4.15/4.3 (Ranking: 6/58)
- Awards: Academic Excellence (Feb. 2023)
- Relevant coursework: Deep Learning, Algorithm, Computer Graphics, Information Retrieval, Data Mining,

KEDGE Business School, Paris France

Jul. 2023 – Aug. 2023

Exchanged Program

RESEARCH EXPERIENCE

Undergraduate Research Project Scholarship, Ministry of Science and Technology, NSYSU Jul. 2024 – Feb. 2025

WishGather: AI-Assisted Sustainable Offering Platform

- Improved low-data object detection by leveraging multimodal visual-semantic representations in YOLO-World to strengthen category-level recognition.
- Built a linear-programming allocator that balances preference, quota, and geospatial constraints to optimize temple-offering distribution beyond greedy baselines.
- Led full-stack app design, covering UI/UX flow, API structure, and database schema to support real-time interaction between temple staff and worshippers.

WORK EXPERIENCE

Industrial Technology Research Institute, Full-Stack Software Developer (Part-time), Hsinchu Sept. 2025 – present

- Develop backend logic and hardware integration of semiconductor scheduling simulator GUI using C#, focusing on system behavior, modeling, and data-flow orchestration.

infFITS (Startup), Software Engineering Intern, Hsinchu

Sept. 2025 – Dec. 2025

- Built a Shopify app backend with secure OAuth and product-sync APIs.
- Developed a LINE-based chatbot system with a Next.js frontend and AWS backend (Lambda, API Gateway, DynamoDB, S3), enabling real-time messaging, user state tracking, and automated operations.
- Implemented a RAG-based product recommender and designed prompts for model-wearing visualization.

Galaxy Software Services, Full-Stack Engineering Intern, Kaohsiung

Jun. 2024 – Dec. 2024

- Led refactoring of reporting and form components in a .NET banking system by applying object-oriented programming (OOP) principles to improve reusability and maintainability, enabling shared logic across system.
- For each development task, analyzed challenges, utilized existing system resources to build solutions, and conducted unit testing to guarantee code quality.

College of Liberal Arts Website Developer, NSYSU

Jan. 2022 – Jul. 2025

- Developed and maintained user-friendly websites for academic departments and conducted user research to align designs with faculty needs.
- Provided IT support, including hardware maintenance, OS installation, and network configuration for university faculty and students.

SELECTED PROJECTS

Survey on Low-Quality Retrieval in RAG Models, Intro. to Information Retrieval

Oct. 2024 – Dec. 2024

- Reviewed 12+ papers on low-quality retrieval issues in RAG models, synthesizing causes, proposing solutions, and mapping future research directions.

- Supervised Learning for AQI Forecasting in Kaohsiung**, *Intro. to Big Data Analysis* Dec. 2023
- Evaluated multiple regression models to predict Kaohsiung's Air Quality Index; achieved best R^2 of 0.88 and analyzed feature impact.
- Clustering-Based Classification of Mixed-Type Datasets**, *Data Mining* Apr. 2022 – Jun. 2022
- Explored supervised and unsupervised learning (KNN, K-means) to classify datasets with unknown categories; evaluated clustering performance and feature separation.
- Median Voter Bot**, *Side Project* Dec. 2023
- Developed a Telegram bot using web scraping and sentiment analysis to surface diverse political perspectives and mitigate algorithmic bias.

LEADERSHIP, EXTRACURRICULAR & VOLUNTEERING

- Lecturer, Web Programming and Design Club** Sept. 2024 – Dec. 2024
- Taught frontend frameworks (Vue) and led hands-on sessions on web development best practices.
- Coordinator (Volunteer), Computer Recycle Program** Mar. 2024 – Jun. 2024
- Created SOPs for PC assembly and led a 10-member team in teaching PC junior high school students to assemble recycled computers.
- Middle Blocker, NSYSU Girl Volleyball Team** Sept. 2021 – Dec. 2024
- Competed in the 2021 - 2024 University Volleyball League Games.
- Vice President, IM Department Student Association** Sept. 2023 – Jun. 2024
- Led a 15-member team, and organized IM Week, generating 15,000+ NTD in profits through strategic planning.

ADDITIONAL INFORMATION

Awards & Honors: *Best Business Award*, Department of Information Management Project Competition (Dec. 2024); *2nd Place* of the IT Service Competition, Taipei (Nov. 2024)

Programming Languages: C/C++, Python, Java, SQL, JavaScript

Tools & Frameworks: AWS, Docker, Git, PostgreSQL, PyTorch, WebGL

Languages: Mandarin (native), English (advanced), Spanish (pre-intermediate)