

# 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<sup>2</sup> 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**

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- 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**

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**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)