

# Chun-Yen Pan

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## SUMMARY

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Aspiring AI engineer with hands-on experience in LLM applications, full-stack development (FastAPI & Next.js), and cloud deployment. Skilled in Python, C/C++, and modern development workflows.

## EDUCATION

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### National Cheng Kung University

September 2021 – June 2025

*Bachelor of Computer Science and Information Engineering*

*Tainan, Taiwan*

- GPA: 3.92 / 4.3
- Intelligent System & Media Processing Lab.(ISMP Lab)
- Core member of Google Developer Group on Campus (September 2024 – Present):
  - \* Led a team to develop a university-specific ChatBot using LLMs, addressing campus-related inquiries with a focus on course selection and student services.
- Contribution of lab0-c: Check if sorting implementation is stable
- A+ in machine learning, compiler and data structure

## EXPERIENCE

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### AI / Full-Stack Intern

July 2024 – Present

*AI Next Mine (Remote)*

*Taichung, Taiwan*

- Developed LLM workflows using Dify and Langflow to enhance data retrieval and content generation for an AI sustainability (ESG) reporting assistant.
- Maintained and deployed client applications on AWS using Docker Compose, addressing **over 10** reported bugs and implementing **15** new features across front-end (Next.js) and back-end (FastAPI, Flask) systems within a **3-month** period.
- Participated in the **AI+ Innovator Selection Contest**: ESG and AI-related applications, including developing a green energy trading platform for Tatung World Technology.
- Developed an LLM-based LINE Bot for Kaohsiung Music Center, enhancing user interaction and improving information accessibility for exhibitions, reaching over **100** users and earning an **Honorable Mention** in the **Go Digital Contest** among **200** competing teams.

### Undergraduate Research Assistant ISMP Lab

July 2023 – June 2024

*National Cheng Kung University*

*Tainan, Taiwan*

- **Developed an AI-Powered Learning Platform with Chatbot Integration** to enhance student learning experiences.
- Integrated automated video summarization and tutoring ChatBots to provide interactive learning support.
- Implemented RAG techniques to provide keyword-based video summaries and timestamped content highlights for efficient search and review.
- Fine-tuned 2 LLM models using Vicuna and Alpaca-LoRA: one for junior high civics curriculum and another for junior high biology curriculum, enhancing question-answering accuracy and content summarization performance.
- Optimized system scalability and efficiency using Python and FastAPI.

## AWARDS & RECOGNITION

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### First Place Winner, iThome Ironman Contest 2024

September 2024

*iThome*

*Online*

- Awarded for the 30-day series, "**Python 新手的 AI 之旅：從零開始打造屬於你的 AI / LLM 應用**", demonstrating technical skills in AI/LLM development.
- Authored a comprehensive guide on building AI/LLM-based applications using Python, sharing knowledge and insights with the wider community. See series here: [Link](#)

## TECHNICAL SKILLS

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- **Languages:** Python, C/C++, JavaScript, TypeScript, SQL
- **Web Development:** FastAPI, Flask, Next.js, React, HTML, CSS
- **AI & LLM:** LangChain, Dify, Langflow, RAG, LoRA Fine-tuning
- **Tools & Platforms:** Git, Docker, GitHub Actions, AWS, Linux, VS Code
- **Database:** PostgreSQL, SQLite
- **Others:** LINE Messaging API, Swagger, Notion API, OpenAI API