

I-Ting (Benjamin) Chu

📍 Hsinchu, Taiwan ✉ itingchu1005@gmail.com ☎ +886-970-573-793 in I-TING CHU 🌐 ChuEating1005

Education

National Yang Ming Chiao Tung University, Hsinchu, Taiwan

Jul. 2022 – Present

- GPA: 4.20/4.3; Ranking: 18/193 (9.33%); (Transcript Link [🔗](#))
- Major in Computer Science; Cross-Disciplinary Specialty: Design and Innovative Technology Program
- Core Courses: *Computer Organization, Intro. to Operating System, Image Processing, Intro. to AI, Intro. to Database Systems, Reinforcement Learning, Computer Vision for UAV Autopilot, Data Visualization and Visual Analytics, Intro. to Computer Graphics, Intro. to Network Programming, System Administration,*

Experience

Comp Photo Lab

Aug. 2024 - Present

Research Assistant

- Advisor: Prof. Yu-Lun Liu.
- Research Topic: 3D Diffusion-based Generation.

Logitech

Mar. 2025 - Jun. 2025

Product Quality Assurance Intern

- Use YOLOv8 and other AI techniques to automatically validate keyboard layouts, ensuring that each key's position and font comply with the standard.

Projects

YStory House - 2024 LINE FRESH

Link [🔗](#)

- Developed a cross-generational social platform using Django backend and LINE Frontend Framework (LIFF)
- Integrated multiple APIs including ChatGPT, DALL-E, LINE Messaging API, and Speech-to-Text Model
- Implemented containerized deployment using Docker and managed MySQL database
- Tool Used: Python, Django, Docker, MySQL, LINE API, Firebase

Exposure Correction - Final Project for Image Processing

Link [🔗](#)

- Implemented a deep learning-based solution to restore over-exposed and under-exposed images using modified Zero-DCE framework
- Designed a multi-scale pipeline with Laplacian pyramid decomposition and progressive enhancement techniques
- Combined approaches from multiple research papers to create an improved exposure correction system
- Tools Used: Python, PyTorch, CUDA, OpenCV

Homework Helper

Link [🔗](#)

- Developed a line bot homework assistant that allows users to upload PDF files and ask questions, leveraging GPT-3.5-turbo for responses.
- Implemented a Retrieval-Augmented Generation (RAG) architecture to handle interactions with large PDF files.
- Integrated scheduling features with Google Calendar and Notion, enhancing task management capabilities.
- Tools Used: Python, LangChain, Pinecone, Redis, Linebot, Flask

Skills

Languages: C++, C, Python, JavaScript, SQL, Shell Script

Framework: React, Vue, Flask, Django, Tailwind, LangChain

Techniques: 3D & 2D Computer Vision, Image Processing, Network & System Administration, Socket Programming

Tools: PyTorch, CUDA, OpenCV, YOLO, Docker, Git, Linux, FreeBSD

Awards

Academic Achievements Awards (Top 5%): Fall 2022 (GPA 4.27), Spring 2023 (GPA 4.3)

Foundation Academic Course Award (Top 5%): Linear Algebra

Extracurricular Activities

President — NYCU Computer Science Student Association 2024

Jun. 2024 - Present

Co-leader of Development Group — 2024 Meichu Hackathon

Feb. 2024 - Nov. 2024