

# I-Ting (Benjamin) Chu

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## 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*