

Chi-Jui(Jerry) Chang

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Personal Website: <https://jerryyyyy708.github.io>

Education

National Yang Ming Chiao Tung University (NYCU)	Hsinchu, Taiwan
<i>Master of Science in Institute of Computer Science and Engineering</i>	September 2023 – Now
Nanyang Technology University (NTU SG)	Singapore
<i>Exchange Student in School of Computer Science and Engineering</i>	January 2023 – May 2023
National Yang Ming Chiao Tung University (NYCU)	Hsinchu, Taiwan
<i>Bachelor of Science in Department of Computer Science</i>	September 2019 – June 2023
• GPA: 3.85/4.3	

Related Coursework

Operating System Capstone (Grade: A+)

- Implement simple OS on Raspberry Pi 3b+, including UART, Bootloader, Interrupt, Memory Allocator, Thread, Virtual Memory, Virtual File System and Non-volatile Storage.
- Bare Metal Programming with C and Assembly.
- Project repo: <https://github.com/jerryyyyy708/osc2024>

Advanced Programming in the UNIX Environment (Grade: A+)

- Understand topics such as Kernel Module, Library Injection, GOT Table, Buffer Overflow, and PTRACE in the UNIX environment and apply them in programming.
- Project repo: https://github.com/jerryyyyy708/NYCU_UNIX_Programming_2024

Embedded System Design (Grade: A)

- Building a cross compile environment on Ubuntu 14.04 and developing programs that run on a development board, which interact with camera and framebuffer.
- Project repo: https://github.com/jerryyyyy708/NYCU_Embedded_System_Design_2023

Research

DL-KDD: Dual-Light Knowledge Distillation for Action Recognition in the Dark

- Achieves State-Of-The-Art accuracy in the task of action recognition in the dark.
- Improve model performance while maintaining computational cost by knowledge distillation.
- Paper Link: <https://arxiv.org/abs/2406.02468>

Work Experience

AmCad BioMed	Taipei, Taiwan
<i>Research and Development Intern</i>	July 2022 – August 2022
<ul style="list-style-type: none">• Training YOLOv4 object detection model for Ultrasound Images, reduced 11.7% miss rate.• Develop software functions with C#.	
Industrial Technology Research Institute (ITRI Taiwan)	Hsinchu, Taiwan
<i>Information and Communications Research Laboratories Intern</i>	November 2022 – December 2022
<ul style="list-style-type: none">• Testing OCR models and table structure detection models and analyze the result.• Model training and software functions development with Python.• Search and present papers with relevant topics of OCR models.	

Side Projects

Android Song Writing APP

May 2022 – June 2022

- A song writing app based on Java, using Android Studio for development.
- Use SQLite to maintain the database of songs.

YouTube Revenue Data Analysis

December 2023

- Using dataset collected from my own YouTube channel.
- Provide data visualization with JavaScript (D3.js).
- Embed YouTubeAPI for revenue prediction with video link and develop webapp with FLASK. Demo page deployed on render.com.
- Project website: https://jerryyyy708.github.io/pages/YT_vis.html

Programing Skills

C, C++ (Environment: Linux/UNIX, ARM)

Python (DL/ML Framework: PyTorch, Scikit-Learn)

Web: HTML/CSS/JavaScript (D3.js, React.js), HUGO

Java (Android Studio)

Language

Chinese: native language

English: TOEFL iBT 100/120 (reading 24/30, listening 28/30, speaking 22/30, writing 26/30)