

EDUCATION

National Yang Ming Chiao Tung University

Master of Data Science and Engineering

09 2024 - Present

Hsinchu City, Taiwan

National Chung Cheng University

Bachelor of Science in Communication Engineering - GPA - 3.99/4.3

09 2020 – 01 2024

Chiayi City, Taiwan

- **3 Presidential Honor Award**

WORK EXPERIENCE

Synology

Backend Engineer Intern

01 2024 – 04 2024

New Taipei City, Taiwan

- Developed 10+ camera APIs for the NAS surveillance system (20,000,000+ downloads) to enhance control features in C++

National Academia Sinica

Researcher Intern

07 2023 – 08 2023

Taipei City, Taiwan

- Computer Olympiad Gomoku **4th**
- Boosted AlphaGo's **win rate to 99%** by integrating threat-space search and KataGo

AWARDS

Competitive Programming Contest | Skills: Data Structure and Algorithms

- **ICPC 2021 Asia Taipei Regional Site Bronze Award**
 - * Won a coding competition with **300+ participants**, organized by NTUB
- Collegiate Programming Examination
 - * Accomplished a 6/7 problem solution rate, ranking 24th out of 2300+ participants.

Deep Learning Contest | Skills: Machine learning

- AI CUP for Orchid Species Identification and Classification Competition
 - * Achieved **70% accuracy rate** by **PyTorch**
 - * Outperformed **90% teams** in class, organized by Ministry of Education

PROJECTS

Enhancing BBR Algorithm in Coexistence with CUBIC | Skills: Networks

- Devised BBR-S, a novel algorithm for detecting BBR presence, ensuring improved fairness using scaled squared difference approach (**1/900**) by **C++**

Physics Simulation Experiments Website | Skills: Frontend

- Designed a website to display physics experiments by **HTML, CSS and JavaScript**
- Used by **300+ students** yearly

Infrared Transmission with Hamming code | Skills: Embedded system

- Achieved **100% accuracy** for transmitting **10K+ characters/s** within planned time by **C, MCU**

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, HTML, CSS

Developer Tools: VS Code, Google Colab

Technologies/Frameworks: Linux, Git, PyTorch, Docker

COURSEWORK

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|-------------------------------------|-------------------------|-------------------------|
| • Data Structures (A+) & Algorithms | • Operating Systems (A) | • Probability (A+) |
| | • Microprocessor (A+) | • Computer Networks (A) |