Yu-Chen Pai

National Yang Ming Chiao Tung University
Institute of Data Science and Engineering

Github : baiyuchen1228 (github.com)
baiyuchen1228@gmail.com | 0966766975

EDUCATION

2024 - Present
National Yang Ming Chiao Tung University

- Master of Data Science and Engineering

2020 - 2024
National Chung Cheng University

- Bachelor of Communication Engineering
- GPA - 3.99/4.3
- **3 Presidential Honor Award**

SKILLS

- Python, C, C++
- JavaScript, Html, CSS
- Linux
- Pytorch

COURSEWORK

- Data Structures
- Algorithms
- Computer Networks
- Operating Systems
- Microprocessor
- Machine learning
- Reinforcement learning

WORK EXPERIENCE

Synology
Backend Engineer Intern

- Jan. 2024 - June. 2024
- Developed **10+ camera APIs** for the NAS surveillance system (**20000000+ downloads**) to enhance control features in **C++**

Academia Sinica
Research Intern

- Jul. 2023 - Aug. 2023
- Computer Olympiad Gomoku **4th**
- Enhanced AlphaGo's capabilities by integrating threat-space search and KataGo, , achieving a **win rate of 99%.**

AWARDS

ICPC 2021 Asia Taipei Regional Site Bronze Award

- Won a coding competition with **300+ participants**

Collegiate Programming Examination

- solved problem : 6 / 7
- rank : **24 / 2352**

PROJECTS

Enhancing BBR Algorithm for Improved Throughput in Coexistence with CUBIC

- Devised BBR-S, a novel algorithm for detecting BBR presence in the environment, ensuring improved fairness, utilizing a squared difference approach **scaled by 1/900.**

Physics Simulation Experiments Website

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