

# Chu-Siang Tseng

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## Education

### National Yang Ming Chiao Tung University

Sophomore year of B.S. in Information Management and Finance

- Overall GPA: 3.84/4.0

Hsinchu, Taiwan

Sep. 2023 - Jun. 2024

### National Yang Ming Chiao Tung University

Sophomore year of B.S. in Computer Science

Hsinchu, Taiwan

Sep. 2024 - Now

## Skills

**Programming** C/C++, Python, PHP, MySQL, CSS

## Honors & Awards

Sep. 2023 **Sliver Medal**, 2023 ICPC Asia-Taiwan Online Programming Contest

Hsinchu, Taiwan

Oct. 2022 **Bronze Medal**, 2023 ICPC Asia Taoyuan Regional Programming Contest

Taoyuan, Taiwan

Dec. 2023 **Department rank : 1/48**, 2023-fall semester Academic Excellence Award

Hsinchu, Taiwan

## Projects

### Quantitative-Trading-Strategies-for-EUR-USD-Market

Hsinchu, Taiwan

A quantitative trading backtesting model applies various strategies to specified financial market data.

Jan. 2024

- Developing tools and packages: Python, TA-Lib, pandas
- Implementing strategies such as SMA, RSI Cross, and Triple Cross Strategy.
- Project Link: <https://github.com/chu-siang/Quantitative-Trading-Strategies-for-EUR-USD-Market>

### Nim - Game (Reinforcement Learning)

Hsinchu, Taiwan

The project involves training a model through Reinforcement Learning, where AI learns by playing against itself, rewarding correct actions and penalizing mistakes.

Jan. 2024

- Developing tools and packages: Python
- Using Q-learning with the formula below  
 $Q(s, a) : Q(\text{state}, \text{action}) \quad Q(s, a) \leftarrow Q(s, a) + \alpha * (\text{new value estimate} - \text{old value estimate})$
- Project Link: [https://github.com/chu-siang/CS50\\_AI/tree/main/W4\\_Learning/nim](https://github.com/chu-siang/CS50_AI/tree/main/W4_Learning/nim)

### Online-Voting-System

Hsinchu, Taiwan

The Online Voting system write with PHP & MySQL

July. 2024

- Developing Tool: HTML, CSS, PHP, MySQL
- This project is an online voting system developed using PHP and MySQL. It provides a platform for conducting secure and efficient elections.
- Project Link: <https://github.com/chu-siang/Online-Voting-System>

## Certificates

2024 **Havard University CS50 Artificial Intelligence certificate**, Havard University

2024 **Havard University CS50 Python certificate**, Havard University

## Experience

### 2024 Summer HPC x AI High-Performance Computing and Artificial Intelligence Summer Camp

Hsinchu

NCHC - NTHU

Aug. 2024

- Study Topic: Advanced CUDA Programming and Memory Optimization, with a focus on understanding the fundamentals of MPI, OpenMP, and CPU/GPU technologies