Huang, Wei-Ying

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PROFILE

A motivated individual with a solid foundation in computer science from coursework and internships, committed to team success and innovative solutions, with a strong passion for AI and emerging technologies.

EDUCATION

National Sun Yat-sen University (NSYSU) **Kaohsiung, Taiwan**
BS in Computer Science and Engineering **Sep. 2020 – Jun. 2024**

- GPA 3.23/4.3
- Relevant Modules: Theory and Practice of Wireless and Mobile Networks Security (A+); Introduction to Artificial Intelligence (A+); Kernel-Based Machine Learning (G) (A); Design and Implementation of Compiler (A-); Unix System Programming (E) (A-);
- Senior Project: "Deep Reinforcement Learning in Financial Market"
  - Developed a deep reinforcement learning (DRL) model that enhanced trading strategy returns by 8-15% compared to traditional buy-and-hold strategies.
  - Integrated Long Short-Term Memory (LSTM) feature extractor networks for advanced time-series data analysis, significantly improving prediction accuracy.
  - Utilized historical stock price data for model training and testing, demonstrating improved portfolio management and risk control across multiple asset classes.

Profile: **weiyinghuang.com**

WORK EXPERIENCE

Jason Tutoring Institute **Kaohsiung, Taiwan**
AP Computer Science (APCS) and Programming Instructor ***July. 2024 – Present***

- Coaching students in fundamental programming languages (C, C++, Python), data structures, problem-solving techniques, and algorithm efficiency, specifically for AP Computer Science exam preparation.
- Providing personalized support to enhance students' understanding, knowledge, and application of core computer science concepts.

NXP Semiconductors **Kaohsiung, Taiwan**
Student Intern Technical ***Jan. 2023 – Dec. 2023***

- Gained hands-on experience in software engineering by contributing to the development and optimization of processes, including reinforcement learning methods.
- Implemented intelligent image recognition systems utilizing neural network models and computer vision techniques for wafer testing, successfully detecting abnormalities with a **90%** accuracy rate.
- Conducted online data analysis for business intelligence and established information aggregation platforms for internal use, achieving a **40%** reduction in operational time and optimized workflows.

AWARD

Innovation in English Promotion Award on Independent Study Competition, NSYSU Nov. 2023

Certifications

Collegiate Programming Examination (CPE): 3/7 (Rank: 10.4%) Dec. 2021

SKILLS

Languages: Chinese Mandarin (Native)/ English (Fluent)/ Japanese (Basic)

Programming Skills: C, C++ (Arduino), C# (UnityEngine), JavaScript (jQuery, Vue.js, React, Node.js), PHP (Laravel), Python (PyTorch, Pygame, OpenCV, Matplotlib), Java, SQL, CI/CD (Git, Docker)

Other Skills: XML/HTML, CSS, JSON, Markdown, LaTex, Autodesk Inventor 3D, Microsoft Office