

# 黃柏淵 Henry Huang

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## EDUCATION

### National Chengchi University

Bachelor of Science, Major in Computer Science

Sep 2023 ~ Present

- Overall GPA: 4.03 / 4.3
- Courses: Data Structures, Algorithms, Machine Learning, Object-Oriented Programming, Digital System, Electronic Circuits, Data Communications and Networking

## TECHNICAL SKILLS

- **Coding Languages:** C, C++, Python, JavaScript, HTML, CSS
- **Tools:** Flask, Firebase, Numpy, PyTorch, TensorFlow, Scikit-learn, OpenCV, YOLO
- **Languages:** Fluent in English and Mandarin

## PROJECT EXPERIENCES

### Trash Classified System

Nov 2024 ~ Dec 2024

- Developed a CNN model using TensorFlow to classify waste into multiple categories with 91% accuracy.
- Deployed the trained model with an interactive frontend, improving user experience.
- Implemented data augmentation and preprocessing techniques to enhance model generalization, achieving robust classification results.

### YOLOv9 Object Detection

Jul 2025

- Implemented YOLOv9 training pipeline with custom parameter tuning and model configuration.
- Prepared and integrated custom datasets, including format conversion, YAML setup, and data structuring.

## COMPETITIONS

### 2025 NCCU Interdisciplinary AI × Sustainability Innovation Competition

Jun 2025

- Finalist - Developed an interactive game integrated with AI to promote sustainability awareness

## EXTRACURRICULAR EXPERIENCES

### NCCU Varsity Swimming Team

Team Captain & Member

Sep 2023 ~ Present

- 2024 National Intercollegiate Athletic Games - Gold Medalist
- 2025 National Intercollegiate Athletic Games - Finalist
- Led a team of 20+ members, enhancing organizational and leadership skills