

CHANG, YI-HO

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Professional Summary

AI-driven, M. Eng. Candidate in Computer Science, specializing in the development, training, and implementation of ML/DL solutions for remote and edge locations. Experience in real-time computer vision, integrating with large language models, and applying state-of-the-art deep neural network architectures like CNN and GAN. Experienced in working with the interface between hardware and software and implementing containerized applications on edge devices with Docker.

Education Background

Oregon State University | Corvallis, OR Sep. 2025 - Present

Master of Engineering

Major in Computer Science; Minor in Artificial Intelligence

- Current GPA: 3.76
- Relevant Coursework: Advanced AI, Computer Vision, Machine Learning.

National Taichung University of Education | Taichung, Taiwan Sep. 2021 - June 2025

Bachelor of Science

Double Major in Digital Content and Technology, Computer Science

- GPA: 3.96

Skills

Languages & Frameworks: Python, Pytorch, Tensorflow, JavaScript, Three.js, C++, C#, SQL, PHP, Java, HTML, CSS.

AI/ML Expertise: Computer Vision, Convolutional Neural Networks (CNN), Generative Adversarial Networks (GAN), Large Language Models (LLM), Retrieval-Augmented Generation (RAG), Transformers, YOLO architectures.

Tools & Deployment: Docker, Kubernetes, Linux operations, Azure IoT Edge, Git, GitHub, Unity.

Professional Experience

Co-Founder & CTO advisor Sep. 2025 - Present

E-Ranyx Co., Ltd.

- Co-founded and headed the technical direction of a tech start-up that provides tailored digital services, web development, and systems integration.
- Responsible for designing and developing AI-driven software systems that guarantee superior performance and compatibility across all platforms.
- Acted as the technical consultant in the application of Large Language Models (LLMs) and computer vision technology in clients' digitalization process.
- End-to-end product owner/developer for software projects. Successfully negotiated and delivered a significant software project comprising of complex UI development and

integration with different API's, on behalf of a major corporate entity, which accelerated client processing time by 80% and successfully helped the client save 50% in costs.

AI Engineer (Part-time)

Sep. 2024 - July 2025

DHT Solution Co., Ltd.

- Apply AI technology to practical solutions specializing in data collection, model construction and optimization, and deployment.
- Responsible for AI software analysis, design, and program development to ensure system performance and stability.
- Design, run experiments and Benchmark LLM Applications; prepared a testing dataset of over 10,000 data points to analyze performance of LLMs in real-world applications, ultimately improving response accuracy by 90%.

Production and Teaching of Digital Course on AI Applying Cloud Technology on Edge Device Management

July 2024 - Aug. 2024

Industrial Technology Research Institute in Taiwan

- Design courses based on the course syllabus and taught it to the engineers of major technology companies so that they can develop and deploy smart solutions based on the NVIDIA Jetson platform independently, covering basic to advanced technology applications such as Linux operations, the use of DeepStream SDK, Docker container technology and the Azure IoT Edge integration technology.

AI Intern

July 2024 - Aug. 2024

Claireye Intelligence Co., Ltd.

- AI image recognition and large language model product planning
- Collaborated with RD engineers to develop web pages, apps, user interface programs, and functional modules and deliver code.
- Assisted in optimizing the system frontends, functionality, and stability of the product, collected customer feedback, and maintained the system.

Research & Projects

Chinese Handwriting Rectification System

Jan. 2024 - Dec. 2024

- Use AI deep learning technology to adopt the Convolutional Neural Network (CNN), conditional Generative Adversarial Network, and patchGAN architecture to analyze and evaluate students' handwriting.
- Set the system to learn from large amounts of Chinese characters to ensure the accuracy of correction and adaptability to different writing styles. The system will display correction lines and suggestions on the computer screen to point out irregularities in handwriting, such as unbalanced character structure or incorrect stroke shapes.

Drone-Based Agricultural Weed Detection System

Jan. 2026 - Mar. 2026

- Created a real-time weed detection system utilizing Drone-based imagery along with the sophisticated YOLOv26 computer vision algorithm.
- Evaluated model performance by conducting separate and joint training, assessing and comparing the various effects of image resolutions, and optimized the testing process to achieve a final detection accuracy of 93%.