


Po Wei (Sander) Hsu

BBA, Information Management, [National Pingtung University](#), 2019 - 2023

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 Taiwan

BRIEF INTRODUCTION

Experienced AI and software engineer with 3+ years building intelligent systems. Proficient in CV, NLP, ML, and data engineering using Python, Golang, PyTorch, and LangChain. Equipped with a strong QA mindset and hands-on experience in test automation (Cypress, Playwright), ensuring reliability and quality across the development lifecycle. Skilled in end-to-end pipeline development, cloud deployment, and CI/CD. Collaborative and detail-oriented, with a focus on building robust, production-ready systems.

3+ years of experience in Software Development.

1+ years of experience in computer vision.

1+ years of experience in machine learning.

1+ years of experience in data engineering.

PERSONAL EXPERIENCES

Associate AI Engineer, [Ubiquiti](#), Taipei/Taiwan, Dec 2024 - Present

• **community-pipeline-Core & community-test-designer**

Python / FastMCP / Grafana / Airflow / Openai API / MongoDB / PostgreSQL / Prompt, Pipeline Engineering / Docker

Developed a fully automated monitoring and suggestion system based on UI-Community, achieving a 1000x efficiency boost. Also doubled the productivity of the Protect, Drive, Access, Connect, Switch and Play product teams by leveraging a custom-built TestDesigner Agent to address core PM and QA pain points.

• **Label Studio & dataset-fasterReviewer**

Golang / Next.js / Restful API / PostgreSQL / Label Studio / Data Version Control (DVC) / Docker

Developed a full-stack app hooked with Label Studio to make dataset checking easier, cutting the time it takes to look over data by more than 30%. This setup keeps detailed metadata—like timestamps, statuses, and who did what for both checking and marking tasks—and works on a server to get rid of extra data moving around, making things 50% more efficient.

• **Video-ETL**

Python / YOLO / Describe Anything / Spark / PostgreSQL

Developed a fully automated pipeline using CV and LLMs to pull key features from video, making data collection smarter and speeding up training/validation prep by 80%. Cuts down manual work and keeps the whole deep learning workflow way more efficient.

• **Other Projects: edge-ai test planning & ai-qa automation tools**

AI Software Engineering Intern, [Pegatron Corporation](#), Taipei/Taiwan, May 2024 - Nov 2024

Python / Next.js / Restful API / LangChain / Llama / RAG / Milvus / MongoDB / MariaDB / Chunk, Prompt, Pipeline Engineering

Engineered and streamlined internal LLM processes using Llama and LangChain, constructed scalable data pipelines with Milvus, MongoDB, MariaDB, and improved data pre-processing through semantic chunking, enhancing recall by 5%. Created interactive multi-modal chatbot response visualizations, participated in the design of a Mixture of Agents architecture that improved system performance by 20%, and worked cross-functionally to provide a frontend interface focused on user experience.

SQA Automation Engineering Intern, [SWAG](#), Taipei/Taiwan, Sep 2024 - Nov 2024

Node.js / Cypress / Github Action / Test Planning

Created and developed a customized automated testing framework from scratch utilizing Cypress and JavaScript, independently creating the test architecture, reusable components, and authoring composite UI and functional test suites for multi-layered verification of workflows, API integrations, and edge-case scenarios. Further, integrating these tests to CI/CD pipelines for seamless execution provided over 90% automation coverage while reducing manual testing effort by over 70%.

Research Assistant, [National Pingtung University](#), Pingtung/Taiwan, Apr 2023 - Apr 2025

Golang / Algorithm Development / Research Skills

Research on TSN (Time-Sensitive Networking) Industrial IoT Multicast.

Founder, [電到系列科技有限公司](#) / [電到創商有限公司](#), Kaohsiung/Taiwan, Apr 2022 - Sep 2023

Leadership / Management / Decision-Making / Risk Tolerance / Creativity

SIDE PROJECTS & HOBBIES

• [openhands-resolver-testrepo](#)

A GitHub Action powered by an AI agent that quickly resolves issues by generating pull requests or fix suggestions.

• [Recommendation System Experiment Notes](#)

A recommendation system project where I implemented several classic recommendation algorithms.

• [Product Technology Demo of 3D Volume Rendering Applied to E-Commerce Platform](#)

A technology that makes product displays on e-commerce platforms more engaging by converting 2D images into 3D objects viewable directly on the web.

• [TKFruitMG](#)

An ERP system that uses customtkinter as the GUI base, with a postgresSQL database and reportlab, win32print, and pymupdf-fitz design.