

Kevin Ko

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Education

Chung Yuan Christian University

Bachelor of Interdisciplinary Studies in Electrical Engineering and Computer Science

Taoyuan, Taiwan

Jul. 2020 - 2024

- **Majored in:** Communications Engineering and Computer Science.

Projects

Seer AI – Human-in-the-Loop Auto-Annotation Platform

Jul. – Aug. 2026

Full-Stack & ML Engineer (Team Project)

- **Automated ~80% Workload:** Engineered an Active Learning pipeline integrating MobileSAM & DINOv2 with multi-strategy confidence routing (Max-Prob/Margin/Entropy) to auto-accept high-confidence predictions.
- **Optimized Vision Inference:** Benchmarked zero-shot detectors (YOLO-World vs. Grounding DINO), achieving **95.5% recall at 242ms latency (4.13 FPS)** and reducing peak VRAM by **80% (down to 1.1 GB)**.
- **Architected Concurrent Workers:** Built background tasks via GCP Cloud Run Jobs and Cloud SQL non-blocking queries (FOR UPDATE SKIP LOCKED) with fencing tokens, eliminating DB deadlocks across workers.
- **Cloud-Optimized Dataset Pipeline:** Engineered multi-format dataset exporter (COCO, YOLO, Mask) with Google Cloud Storage (GCS) integration and pre-signed URLs to offload app server download bandwidth.
- **Mobile-First Interface:** Developed LINE Bot & LIFF (LINE Front-End Framework) app backed by Flask REST APIs and session authentication for mobile task triggering and review queues.

Personal Portfolio Website

Sep. 2025

Personal Project

- Developed a responsive static portfolio website using HTML5, CSS3, and JavaScript, with dynamic Dark/Light mode switching.
- Automated deployments with Cloudflare Pages CI/CD pipeline, enabling GitOps-based preview environments on pull requests.

Garbage Detection Model

Mar. 2024

Team Leader

- Trained a custom YOLO object detection model locally using Darknet, optimizing performance without cloud computing resources.
- Built a high-quality dataset by annotating images using LabelImg and performing data cleaning.
- Integrated OpenCV for low-latency, real-time video stream object detection.

Skills

Languages: Mandarin (Native), English (Fluent - TOEIC 915/990)

Programming Languages: Python, C++, Java

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, Postman, Docker, GCP