

Yen-Jung, Chen

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EDUCATION

Purdue University

Master of Science in Computer Engineering

- Relevant Coursework: Deep Learning, Random Variables, Advanced Mathematics for Engineers and Physicists

West Lafayette, IN

Expected December 2025

Purdue University

Bachelor of Science in Computer Engineering

- Relevant Coursework: Machine Learning, Python for Data Science, Object Oriented Programming in C++

West Lafayette, IN

May 2024

SUMMARY

Machine Learning Engineer & Purdue MS student with hands-on LLM fine-tuning (BLEU-4 54.6%) and computer vision pipelines (87% quality control boost).

EXPERIENCE

Ariel Premium Supply

AI & BI Intern

Overland, MO

May 2025 – July 2025

- Developed a LangChain + LLM agent enabling plain-English record retrieval—reduced lookup time by 63%.
- Integrated PromoStandards API to update inventory database, eliminating 2+ hours of manual updates per week.
- Created logo detection app (Python, JS, GCP Vision API), accelerating QC checks by 87%.
- Applied HDBSCAN clustering (Silhouette score 0.63) to personalize order requests—improved scheduling by 12%.
- Automated cross-border invoice reporting (Python + SQL), reducing manual effort by 2+ hours per week
- Automated import/export workflows with SQL Server views and barcode scanning; cut manual entry by 96%.

Pegatron Corporation

Computer Vision & MLOps Intern

Taipei, Taiwan

June 2023 – August 2023

- Deployed PyTorch-based UNet segmentation model in production, achieving 0.61 AP, 0.51 IoU and 0.44 s/image inference latency.
- Boosted defect detection yield via prompt segmentation, and MLOps optimization.
- Developed AI Model Comparison Dashboard for benchmarking segmentation models.
- Built CI/CD-driven training-validation-deployment pipeline for real-time defect solutions.

SkyLab

LLM Research Assistant

West Lafayette, IN

December 2024 – May 2025

- Processed 843 transportation PDFs to create 5,000+ QA pairs for LLM fine-tuning.
- Automated full data pipeline: conversion, cleaning, QA formatting.
- Fine-tuned LLaMA3, DeepSeek-V3, Qwen2.5 models (7B–70B) using DeepSpeed on 4xA100 clusters.
- Achieved BLEU-4 of 54.62 and ROUGE-L of 63.06 in validation benchmarks.

Purdue University, Senior Design Project

AI/Robotics Project Team Lead

West Lafayette, IN

January 2024 – May 2024

- Led 2-person team to train CNN+DQN models for indoor drone navigation in AirSim.
- Trained agent for 5,000+ episodes, achieving 72.5% mission success; improved convergence via reward tuning.
- Managed agile sprints to deliver milestones on time; delivered on-time demo.

CORE COMPETENCIES

Technical Skills: • Python • C/C++ • SQL • PyTorch • Hugging Face • LangChain • DeepSpeed • Pandas • NumPy • Matplotlib • MLOps

Cloud, Infrastructure & Databases: • Google Cloud Platform • Git • GitLab CI/CD • Linux • SQL Server

Other Expertise: • Agile Development • Model Deployment • Prompt Engineering • Retrieval-Augmented Generation • LLM Fine-Tuning • Distributed Computing