

Yen-Jung, Chen

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EDUCATION

Purdue University

Master of Science in Computer Engineering

Relevant Courses: Artificial Intelligence, Random Variables and Signals, Graph Theory

West Lafayette, IN

Expected December 2025

Purdue University

Bachelor of Science in Computer Engineering

Relevant Courses: Machine Learning, Data Structures, Python for Data Science

West Lafayette, IN

May 2024

GPA: 3.64/4.0

SKILLS

- Programming Languages: C, C++, Python
- AI/ML Techniques: Deep Reinforcement Learning, Model Performance Metrics
- Development Practices: Agile Development, Test-Driven Development
- Platforms: GitHub, Linux

WORK EXPERIENCE

Artificial Intelligence Software Engineer Intern

Pegatron Corporation

Taipei, Taiwan

June 2023 - August 2023

- Spearheaded a defect detection project on the production line, improving detection efficiency by 5% through visual prompt AI techniques.
- Developed an interactive webpage to compare AI models, integrating key performance metrics to streamline model selection for various use cases. Allowing users to generate, save, and compare models based on specified prompts, accelerating the model comparison process.

Senior Design Project: Deep Reinforcement Learning Autonomous Drone

Project Leader

West Lafayette, IN

January 2024 – May 2024

- Implemented Deep Reinforcement Learning algorithms for autonomous navigation of drones in Microsoft's AirSim environment. Tested various network architectures and reward functions to optimize performance and demonstrated potential applications in search and rescue missions.
- Effectively communicated project findings to faculty, earning recognition for clarity and impact.

Senior Design Project: Large Language Model for Medical Diagnosis

Project Leader

West Lafayette, IN

September 2023 – December 2023

- Fine-tuned a pre-trained large language model (LLaMA) to assist doctors in diagnosing and recommending treatments based on medical records.
- Led the team using Agile methodologies, ensuring smooth coordination and task delegation, creating one of the top-performing projects at the university exposition.

AWARDS & ACHIEVEMENTS

Best Group Project, Pegatron Corporation – Summer Internship 2023

- Awarded for leading an AI-driven defect detection project that increased production line efficiency with Agile and test-driven development methodologies.

Amazon Web Services DeepRacer Fastest Lap Award, Feng Chia University – 2020

- Recognized for achieving the fastest lap time in an AWS DeepRacer competition, demonstrating excellence in autonomous vehicle development and reinforcement learning.