**Yen-Jung, Chen**

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# PROFESSIONAL SUMMARY

Highly motivated Computer Engineering graduate student specializing in AI and machine learning, with practical experience in optimizing AI solutions for industrial production lines. Proven track record in deep reinforcement learning and deploying AI models in real-world applications. Skilled in Agile development, seeking an AI software engineering role to drive innovation and efficiency in AI-powered solutions.

# EDUCATION

**Purdue University** West Lafayette, IN

*Master**of Science**in Computer Engineering* Expected December 2025

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

**Purdue University** West Lafayette, IN

*Bachelor of Science in Computer Engineering* May 2024

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

# SKILLS

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

# WORK EXPERIENCE

**Artificial Intelligence Software Engineer Intern** Taipei, Taiwan

*PEGATRON Corporation* 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 West Lafayette, IN

*Project Leader* January 2024 – May 2024

* Implemented Deep Reinforcement Learning algorithms for autonomous navigation of drones in Microsoft’s AirSim environment.
* Tested various network architectures, activation functions, and reward functions to optimize performance. Demonstrated potential applications in search and rescue missions, surveillance, and environmental monitoring.

## Senior Design Project: Large Language Model for Medical Diagnosis West Lafayette, IN

*Project Leader* 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 a team using Agile methodologies, creating one of the top-performing projects at the university exposition.

# AWARDS & ACHIEVEMENTS

* Best Group Project, Pegatron Corporation – Summer Internship 2023
* Amazon Web Services DeepRacer Fastest Lap Award, Feng Chia University – 2020