

Yen-Jung Chen

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EDUCATION

Purdue University

Bachelor of Science in Computer Engineering

West Lafayette, IN

May 2024

Relevant Courses: Operating Systems Engineering, Data Structures, Python for Data Science, Object Oriented Programming with C++, Software for Embedded System, Microprocessor Systems and Interfacing

SKILLS

- Programming Languages: C, C++, Python, MicroPython
- Platforms: GitHub, Linux
- Methods: Agile Software Development, Test-Driven Development

EXPERIENCE

Artificial Intelligence Software Engineer Intern

Taipei, Taiwan

PEGATRON Corporation

June 2023 - August 2023

- Spearheaded a project dedicated to enhancing defect detection within the production line. Implemented training-based methodologies and introduced visual prompt AI techniques to improve efficiency.
- Developed a user-friendly and interactive webpage for effortless model performance comparison. Integrated matrices such as Intersection over Union (IoU) and mean average precision (mAP), providing an intuitive platform for users to assess and select the most suitable models.
- Successfully deployed SegGPT to facilitate visual prompt methodology. Empowered users to generate, save, and compare AI models based on their specified prompts, streamlining the model selection process for diverse use cases.
- Utilized extensive datasets and pre-trained models within Pegatron's AI platform - Cambrian, contributing to the refinement and fine-tuning of AI models.
- Demonstrated proficiency in project management within a collaborative team environment. Utilized industry-standard tools such as Git, embraced test-driven development practices, and applied Agile methodologies to ensure streamlined development processes and successful project delivery.
- Awarded Best Group Project at the end of the internship.

Senior Design Project: Large Language Model for Medical Diagnosis

West Lafayette, IN

Project Leader

September 2023 - Present

- Fine-tuned a pretrained large language model from Meta – LLaMA to assist doctors and potentially patients in determining the appropriate description or treatment method for their symptoms based on uploaded medical records datasets.
- Led the team with Agile methodologies, resulting in becoming one of the most attractive groups in the exposition. Successfully showcased the team's achievements and contributions, garnering attention and recognition.

Project: Smart Locker

West Lafayette, IN

Project Member

September 2020 - November 2020

- Led the implementation of cutting-edge machine learning techniques, specifically utilizing OpenCV, to enable facial recognition for secure access to the smart locker system.
- Developed and managed a MySQL database to store and retrieve customer facial photos, personal details, and package information, ensuring a seamless and secure user experience.
- Spearheaded the integration of Raspberry Pi microcomputer technology, creating a barrier-free and user-friendly smart locker system that significantly improved accessibility for users with diverse needs.
- Collaborated closely with team members to ensure the successful integration of hardware and software components, resulting in a fully functional and reliable smart locker prototype within the project timeline.

陳衍榮

印第安那州西拉斐特 | 765-409-5263 | chen4126@purdue.edu

教育

普渡大學

計算機工程理學學士

相關課程：作業系統工程、數據結構、用於資料科學的 Python、C++物件導向程式設計、嵌入式系統軟體、微處理器系統和介面

西拉斐特

2024年5月

技能

- 程式設計語言：C、C++、Python、MicroPython
- 平臺：GitHub、Linux
- 方法：敏捷軟體開發、測試驅動開發

經驗

人工智慧軟體工程師實習生

和碩

臺北，臺灣

六月 2023 - 2023年8月

- 開展了一個專案致力於加強生產線內的缺陷檢測。實施基於訓練的方法，引入視覺提示人工智慧技術以提高效率。
- 開發了一個使用者友好的互動式網頁，以便輕鬆進行模型性能比較。集成矩陣，如交並集（IoU）和平均精度（mAP），為使用者評估和選擇最合適的模型提供了一個直觀的平臺。
- 成功部署SegGPT以促進視覺提示方法。使用戶能夠根據其指定的提示生成、保存和比較AI模型，從而簡化不同用例的模型選擇過程。
- 利用和碩人工智慧平臺寒武紀中的廣泛數據集和預訓練模型，為人工智慧模型的完善和微調做出貢獻。
- 在協作團隊環境中表現出對專案管理的熟練程度。利用Git等行業標準工具，採用測試驅動的開發實踐，並應用敏捷方法來確保簡化開發流程和成功交付專案。
- 實習結束時榮獲最佳團體項目獎。

大學畢業專案：醫學診斷大語言模型

項目負責人

印第安那州西拉斐特

2023年9月至今

- 微調了來自 Meta – LLaMA 的預訓練大型語言模型，以幫助醫生和潛在患者根據上傳的病歷數據集確定適合其癥狀的描述或治療方法。
- 以敏捷方法領導團隊，成為博覽會上最具吸引力的團隊之一。成功展示了團隊的成就和貢獻，獲得了關注和認可。

專案名稱：智慧儲物櫃

專案成員

印第安那州西拉斐特

2020年9月至2020年11月

- 領導了尖端機器學習技術的實施，特別是利用OpenCV，使面部識別能夠安全訪問智慧儲物櫃系統。
- 開發並管理MySQL資料庫，用於存儲和檢索客戶面部照片、個人詳細資訊和包裹資訊，確保無縫和安全的用戶體驗。
- 率先整合樹莓派微機技術，打造無障礙、人性化的智慧儲物櫃系統，為有不同需求的使用者提供無障礙體驗。
- 與團隊成員密切合作，確保硬體和軟體元件的成功集成，從而在項目時程表內實現功能齊全且可靠的智慧儲物櫃原型。