




Yu-Po Peng

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Education

MS	National Cheng Kung University , Computer Science and Information Engineering	Sep. 2022 - Sep. 2024
	<ul style="list-style-type: none">• Courses: Linux Kernel Implementation, Computer Architecture• Skills: NLP, Knowledge Graph, Neo4j	
BS	National Sun Yat-sen University , Computer Science and Engineering	Sep. 2018 - Jun. 2022
	<ul style="list-style-type: none">• Courses: Digital Image Processing, Deep Learning, Network Applications Programming• Skills: Attribute-Based Encryption, Web Development	



Publications and Preprints

- [1] **Yu-Po Peng**, Chung-Ping Young, Wen-Hsiang Lu, "**Design and Implementation of a Reasoning Question Answering System for Automatically Generating Implicit Questions Based on News Topics**," *Master's Thesis, National Cheng Kung University*, 2024.  
- [2] **Yu-Po Peng**, Pin-Chung Chen, Kuan-Yu Ko, Jun-Huei Wang, Shin-Nan Guo, Chun-I Fan, "**Secure Extended Mail System Based on Attribute-Based Encryption**," *Cryptology and Information Security Conference*, 2022. 



Honors

2023	Judges' Recognition Award , AI Voice-Assisted Exhibition Experience for Visually Impaired, AI-GOOD Talent Competition	
2022	Best Student Paper Award (Honorable Mention) , 32nd Cryptology and Information Security Conference, Chinese Cryptology and Information Security Association	
2021	Provision Information Security Award , College of Engineering Joint Project Competition, National Sun Yat-sen University	

Projects

Medical QA Assistant 	Lead Developer	Aug. 2024 - Sep. 2024
<ul style="list-style-type: none">• Implemented Retrieval-Augmented Generation (RAG) using Large Language Models (LLMs) to enhance response accuracy and responsibility, avoiding user misguidance.• Ollama, Streamlit, LangChain, Chroma		
J-kumo (TW) Support System for Japanese Learning 	Primary Maintainer	Feb. 2023 - Apr. 2024
<ul style="list-style-type: none">• Repaired and integrated six subsystems using Django.• Streamlined deployment with shell scripts and Docker Compose• Accumulating 70,000+ visits since its launch in September 2023• Django, SQL, Nginx, Docker		

Course Projects

Linux Kernel Project - fibdrv  	Spring, 2023
<ul style="list-style-type: none">• Developed a Linux kernel module for Fibonacci sequence calculation, optimizing performance through API analysis.• C/C++, Linux Kernel	

- Built a simple chatroom supporting multiple users simultaneously using Sockets and Multi-process programming.
- C/C++, Socket Programming