



# Yu-Po Peng (Paul Peng)

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## Education

MS	National Cheng Kung University, Computer Science and Information Engineering	Sep. 2022 - Sep. 2024
BS	National Sun Yat-sen University, Computer Science and Engineering	Sep. 2018 - Jun. 2022




## 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**," *Cryptography and Information Security Conference*, 2022. 




## Honors

2023	<b>Judges' Recognition Award</b> , AI Voice-Assisted Exhibition Experience for Visually Impaired, AIGOOD Talent Competition	
2022	<b>Best Student Paper Award (Honorable Mention)</b> , 32nd Cryptology and Information Security Conference, Chinese Cryptology and Information Security Association	

## Projects

<b>Medical QA Assistant</b> 	Lead Developer	Aug. 2024 - Sep. 2024
<ul style="list-style-type: none"><li>Implemented Retrieval-Augmented Generation (RAG) using Large Language Models (LLMs) to <b>enhance response accuracy and responsibility</b>, avoiding user misguidance.</li><li><b>Skills:</b> Ollama, Streamlit, LangChain, Chroma</li></ul>		
<b>QA System for Generating Implicit Questions</b>	Lead Developer	Sep. 2023 - Jul. 2024
<ul style="list-style-type: none"><li>Using knowledge graph and NLP techniques to <b>implement a reasoning question answering system</b> for generating implicit questions based on news topics.</li><li><b>Skills:</b> NLP, Knowledge Graph, Neo4j</li></ul>		
<b>J-kumo (TW) Support System for Japanese Learning</b> 	Primary Maintainer	Feb. 2023 - Apr. 2024
<ul style="list-style-type: none"><li>Integrated six services from legacy systems by using <b>Django</b> and <b>streamlined deployment with shell scripts and Docker Compose</b>.</li><li><b>Skills:</b> Django, SQL, Nginx, Docker</li></ul>		
<b>Nmail System</b> 	Lead Developer	Sep. 2020 - Oct. 2021
<ul style="list-style-type: none"><li>Design a system that allows users to encrypt their emails with <b>ABE</b> before sending them.</li><li><b>Skills:</b> Attribute-Based Encryption(ABE), Gmail API, AWS, System Design</li></ul>		

## Course Projects

<b>Linux Kernel Project - fibdrv</b>  	Spring, 2023
<ul style="list-style-type: none"><li>Write a kernel module of Fibonacci sequence, then optimizing its performance.</li><li><b>Skills:</b> C/C++, Linux Kernel</li></ul>	
<b>Online Chat Service</b> 	Spring, 2022
<ul style="list-style-type: none"><li>Built a simple chatroom supporting multiple users simultaneously.</li><li><b>Skills:</b> C/C++, Socket Programming</li></ul>	