

# Hsiang-Jen Li

Finance & CS Background | Data Analyst @ SCSB

- Seeking a Data & MLOps Engineer role with a focus on research and complex data relationships
- Learning best through teaching
- Establishing development standards
- Standardizing development practices to automate CI/CD
- Unifying dev and deploy environments through Docker

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## Education

### National Taiwan University of Science and Technology

Taipei, Taiwan

- M.S. in Department of Computer Science and Information Engineering
- Overall GPA: 4.02/4.3

2024

### National Kaohsiung University of Science and Technology

Kaohsiung, Taiwan

- B.S. in Department of Money and Banking
- Overall GPA: 3.82/4.3

2022

## Experience

### Shanghai Commercial and Savings Bank Taipei, Taiwan

Shanghai Commercial and Savings Bank Taipei, Taiwan

- Developed a Public Opinion Analysis System for the SCSB

2023.07 - 2023.08

### System Informatics and Management Science - SiMS Lab

## Skills

Language Python , LaTeX  
Website FastAPI , HTML , CSS/SCSS , Bootstrap  
Tool git , Docker  
CI/CD Github Actions , MLflow , GitOps  
Platform Ubuntu , mac OS , Windows

## Competitions & Awards

### Campus Fintech Innovation Challenge

2022

- Hosted by Taiwan Academy of Banking and Finance
- Ranked as the 8th out of 187 teams

### Joint Exhibition on Artificial Intelligence and Neural Networks

2022

- Hosted by National Kaohsiung University of Science and Technology - Department of Electrical Engineering
- Ranked as the 1st out of an estimated 30 teams

### Campus Achievement Exhibition

2020

- Hosted by Fintech Space
- Competition's preferred choice

## Research Interests

- Complex Systems and Network Science
- Metaheuristics
- Distributed Computing
- Privacy-Preserving Machine Learning

## Side Projects

### Code2Video

2024.08 - 2024.08

- A small project for converting the code snippet to the video.

### DIMG4MD

2024.02 - 2024.02

- A Python package for automatically download the image from the markdown file and save it to the local folder.

<b>Learn Julia</b>	<b>2024.01 - now</b>
<ul style="list-style-type: none"> <li>Learning Julia Programming Language with a series of scripts.</li> </ul>	
<b>Awesome Metaheuristic and its Applications</b>	<b>2024.01 - now</b>
<ul style="list-style-type: none"> <li>A curated list of awesome metaheuristic and its applications resources.</li> <li>Including the basic concepts of metaheuristic, the application of metaheuristic, like Graph Neural Network and Graph Database.</li> <li>Also including the latest research papers about metaheuristic.</li> </ul>	
<b>Awesome Complex System and Network Science</b>	<b>2023.12 - now</b>
<ul style="list-style-type: none"> <li>A curated list of awesome complex system and network science resources.</li> <li>Including the basic concepts of complex system and network science, the application of complex system and network science, like Graph Neural Network and Graph Database.</li> <li>Also including the latest research papers about complex system and network science.</li> </ul>	
<b>Evasion Attack in Machine Learning</b>	<b>2023.09 - 2023.12</b>
<ul style="list-style-type: none"> <li>Trying to use evasion attack to attack the CNN-based malware detection model.</li> <li>Need to add noise to the malware sample to make the model misclassify the sample.</li> <li>The dataset is collected by ourselves (Using Cuckoo Sandbox and VirusShare).</li> </ul>	
<b>2023 IT home Ironman Challenge - AI and Data</b>	<b>2023.09 - 2023.10</b>
<ul style="list-style-type: none"> <li>In this challenge, I had written 30 articles about Network Science and Graph Neural Network.</li> <li>Including the basic concepts of Network Science, the application of Network Science, like Graph Neural Network and Graph Database.</li> <li>Also including the latest research papers about Graph Neural Network.</li> </ul>	
<b>Web Scraping : Social Network Crawler</b>	<b>2023.07 - 2023.08</b>
<ul style="list-style-type: none"> <li>Using Dynamic Web Scraping Packages (Selenium, Playwright etc.) to crawl social network data.</li> <li>The data will be stored in MongoDB and can be used for further analysis.</li> </ul>	
<b>Graph-based : Keywords Recommendation System</b>	<b>2023.05 - 2023.06</b>
<ul style="list-style-type: none"> <li>Applying Network Science field to build a keywords recommendation system.</li> </ul>	
<b>Taiwan Famous Ecommerce : Find Identical Products</b>	<b>2022.11 - 2022.12</b>
<ul style="list-style-type: none"> <li>Finding identical products from item's name is a quite challenging task.</li> <li>Using Regular-Expression and CKIP-transformer to extract keywords from item's name.</li> <li>And using dimension-reduction and cluster algorithms to find identical products.</li> </ul>	
<b>Apriori J104</b>	<b>2022.05 - 2022.06</b>
<ul style="list-style-type: none"> <li>An application for analyzing the skills required by the job market.</li> <li>The data is crawled from 104 job bank and stored in MongoDB.</li> <li>And the data will be processed by CKIP-transformer.</li> <li>Finally, using apyori algorithm to find the association rules between skills.</li> </ul>	
<b>Financial Public Opinion Analysis</b>	<b>2022.03 - 2022.06</b>
<ul style="list-style-type: none"> <li>Using Django to build a web application for analyzing financial public opinion.</li> <li>The data is crawled from Anue and the data will be stored in MongoDB.</li> </ul>	
<b>Line-Bot : Stock Info</b>	<b>2020.10 - 2021.07</b>
<ul style="list-style-type: none"> <li>A Line-Bot for getting the stock information.</li> </ul>	