

# 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

- Data Analyst @ SCSB Digital Banking Department

2024.09 - now

### Shanghai Commercial and Savings Bank

Taipei, Taiwan

- Internship @ SCSB Digital Banking Department
- Developed a Public Opinion Analysis System for the SCSB

2023.07 - 2023.08

## Skills

**Language** Python , LaTeX  
**Website** FastAPI , HTML , CSS/SCSS , Bootstrap  
**Tool** git , Docker  
**CI CD** Github Actions , MLflow  
**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

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### 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.

### Learn Julia

2024.01 - now

- Learning Julia Programming Language with a series of scripts.

### Awesome Metaheuristic and its Applications

2024.01 - now

- A curated list of awesome metaheuristic and its applications resources.
- Including the basic concepts of metaheuristic, the application of metaheuristic, like Graph Neural Network and Graph Database.
- Also including the latest research papers about metaheuristic.

### Awesome Complex System and Network Science

2023.12 - now

- A curated list of awesome complex system and network science resources.
- 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.
- Also including the latest research papers about complex system and network science.

### Evasion Attack in Machine Learning

2023.09 - 2023.12

- Trying to use evasion attack to attack the CNN-based malware detection model.
- Need to add noise to the malware sample to make the model misclassify the sample.
- The dataset is collected by ourselves (Using Cuckoo Sandbox and VirusShare).

### 2023 IT home Ironman Challenge - AI and Data

2023.09 - 2023.10

- In this challenge, I had written 30 articles about Network Science and Graph Neural Network.
- Including the basic concepts of Network Science, the application of Network Science, like Graph Neural Network and Graph Database.
- Also including the latest research papers about Graph Neural Network.

### Web Scraping : Social Network Crawler

2023.07 - 2023.08

- Using Dynamic Web Scraping Packages (Selenium, Playwright etc.) to crawl social network data.
- The data will be stored in MongoDB and can be used for further analysis.

### Graph-based : Keywords Recommendation System

2023.05 - 2023.06

- Applying Network Science field to build a keywords recommendation system.

### Taiwan Famous Ecommerce : Find Identical Products

2022.11 - 2022.12

- Finding identical products from item's name is a quite challenging task.
- Using Regular-Expression and CKIP-transformer to extract keywords from item's name.
- And using dimension-reduction and cluster algorithms to find identical products.

### Apriori J104

2022.05 - 2022.06

- An application for analyzing the skills required by the job market.
- The data is crawled from 104 job bank and stored in MongoDB.
- And the data will be processed by CKIP-transformer.
- Finally, using apyori algorithm to find the association rules between skills.

### Financial Public Opinion Analysis

2022.03 - 2022.06

- Using Django to build a web application for analyzing financial public opinion.
- The data is crawled from Anue and the data will be stored in MongoDB.

### Line-Bot : Stock Info

2020.10 - 2021.07

- A Line-Bot for getting the stock information.