Education

Cornell University

New York City, US

M.S. in Information Systems and Applied Information Science

National Taiwan University

Taipei, Taiwan

B.S. in Engineering Science and Ocean Engineering (GPA: 3.86)

Sep.2016 - Aug.2020

Aug.2021 - Present

Skills

Programming Python, C/C++, Java, SQL, JavaScript, HTML/CSS, Bash (Ordered by proficiency)

Libraries & Toolkits PyTorch, Tensorflow, Flask, Scrapy, Selenium, Git, Linux

Work & Teaching Experience

Chinese Knowledge and Information Processing Laboratory, Academia Sinica

Taipei, Taiwan

Aug. 2020 - Jun. 2020

· Advisor: Prof. Ma, Wei-Yun

Research Assistant (Full Time)

- Worked on various NLP topics with a focus on Data-to-Text Generation.
- · Devised a dynamic content planning schema for Data-to-Text Generation that mimics the thought process of humans.

Cathay Financial Holdings Co., Ltd.

Taipei, Taiwan

Data Scientist Intern

Jul. 2019 - Jun. 2020

• Developed an unsupervised representation learning toolkit for tabular data. Boosting the performance of a variety of downstream tasks.

National Taiwan University

Taipei, Taiwan

Research Assistant (Part-Time)

Mar. 2020 - Jun. 2020

- · Advisor: PProf. Liu, Helen K
- Improved & deployed a web-scraping system with a 400% speed-up compared to the prior system.
- Designed a syntax processing pipeline that extracts essential information and calculates the similarity between job posting and school curriculum.

National Taiwan University

Taipei, Taiwan

Teaching Assistant

Sep. 2019 - Jan. 2020

• Teaching assistant for the Machine Learning course [EE5184]

Projects

Dynamic Data-to-Text Demo System

CKIP Lab

https://ckip.iis.sinica.edu.tw/service/data2text/

- · A demo system for our Dynamic Content Planing (DCP) algorithm. Converting NBA Box-Score data into a game summary.
- Flask, PyTorch, Python, JavaScript, HTML, CSS

BERTable: Universal Representation Learning Toolkit for Tabular Data

Cathay Holdings

https://github.com/dwaydway/BERTable

- A cross-datatype representation learning toolkit for tabular data using transformer-based model.
- Distributed representations of both categorical and numerical data were learned by recovering missing values.
- PyTorch, Python

Ticket Reservation System

NTU

https://github.com/dwaydway/Reservation-System

- · A ticket reservation system in Jave using Command Design Pattern and a MySQL backend system.
- · Java, MySQL, JDatePicker

Publications.

[1] Kai-Ling Lo, **Ting-Wei Lu**, Tzu-Teng Weng, I-Hsuan Chen, Yun-Nung Chen. 2020. Lion-net: Lightweight ontology-independent networks for schemaguided dialogue state generation. In Dialog System Technology Challenge Workshop at AAAI.

Competitions

2019 **20th / 26 teams**. The 8th Dialog System Technology Challenge.

International

Taiwan

2019 4th / **124 schools**. National Rubber Baseball Series.

National Taiwan University

2019 **1st / 14 teams**. Self-Navigating Boat Contest.

National Taiwan University

2017 **Honorable Mention**. App Creativity Contest.

Extracurricular Activities

Varsity Baseball Team

National Taiwan University

· Captain of the department baseball team and member of the varsity team. Won 2 regional championships.