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linkedin.com/in/dwaydwaydway/

Education

Cornell Tech New York City, US

M.S. in Information Systems and Applied Information Science

Aug.2021 - Present

National Taiwan University

Taipei, Taiwan

B.S. in Engineering Science and Ocean Engineering (GPA: 3.77/4.0)

Sep.2016 - Aug.2020

Skills

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

Systems & Libraries UNIX, Linux, PyTorch, Tensorflow, Flask, Scrapy, Selenium, Git

Work & Teaching Experience.

Chinese Knowledge and Information Processing Laboratory, Academia Sinica

Taipei, Taiwan

Aug. 2020 - Jun. 2020

• Worked on various research topics about Natural Language Processing with a focus on Data-to-Text Generation.

- Devised a Dynamic Content Planning schema for Data-to-Text Generation that restores the bidirectional dependencies between content plans and summaries. Fine-grained generation control was achieved using simple natural language commands.
- · Launched a website demonstrating our Dynamic Content Planning algorithm. The site converts NBA Box-Score data into a game summary.
- Website: https://ckip.iis.sinica.edu.tw/service/data2text/

Cathay Financial Holdings Co., Ltd.

Tainei Taiwan

Data Scientist Intern

Jul. 2019 - Jun. 2020

- · Published a cross-datatype representation learning toolkit for tabular data using a BERT-based model.
- Experiments show that our work raises the performances of downstream tasks, especially those consist of unlabeled data and missing values.
- Toolkit: https://github.com/dwaydwaydway/BERTable

National Taiwan University

Research Assistant (Full Time)

Taipei, Taiwan

Research Assistant (Part-Time)

Mar. 2020 - Jun. 2020

- Improved & deployed a web scraper with a 80% speed-up compared to the prior system.
- Designed a syntax processing pipeline using POS tagging and constituency parsing that extracts essential information in job postings.

National Taiwan University

Taipei, Taiwan

Teaching Assistant

Sep. 2019 - Jan. 2020

• Teaching assistant for the Machine Learning course [EE5184]

Publications & Competitions & Projects ____

The 8th Dialog System Technology Challenge - Schema-Guided Dialogue State Tracking

DSTC8

https://github.com/MiuLab/LION-Net

- Built a seq2seq dialogue state generator which requires 85% less execution time and 80% less memory usage than the official baseline approach while achieving higher prediction accuracy.
- 20th place out of 26 teams in the 8th Dialog System Technology Challenge.
- Kai-Ling Lo, **Ting-Wei Lu**, Tzu-Teng Weng, I-Hsuan Chen, Yun-Nung Chen. 2020. Lion-net: Lightweight ontology-independent networks for schema-guided dialogue state generation. *In Dialog System Technology Challenge Workshop* (**DSTC8**) *in Proceedings of Thirty-Fourth AAAI Conference on Artificial Intelligence* (**AAAI 2020**), *New York*, *USA*, 2020.

Self-Navigating Boat Steeplechase Contest

NTU

https://github.com/dwaydwaydway/Self-Navigating-Boat

- Based on a 3D-printed boat, constructed a self-navigating boat with sonar sensors, motors, and an STM32 Nucleo-64 board (F303RE).
- Won 1st place (out of 14 teams) in the steeplechase competition.

Ticket Reservation System

NTU

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

- Developed a ticket reservation system in Jave using Command Design Pattern with a MySQL backend system.
- · Supports all conventional functionalities such as inquiry, ticket-booking, seat-arranging, and order-revising.

Leadership & Extracurricular Activities _

Varsity Baseball Team

Alumni Association

National Taiwan University

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

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Minghua Junior High

· Vice president of the alumni association of Minghua Junior High. Assisted underrepresented students on school work.