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EDUCATION

• National Taiwan University (NTU)

Taipei, Taiwan

Sept. 2020 - Jun. 2025

Bachelor's degree in Computer Science and Information Engineering Bachelor's degree in Sociology

Sept. 2021 - Jun. 2025

- Recipient of the 2020 National Taiwan University Fu Bell Entrance Scholarships (70 out of 3758 students).
- o Completed one-year exchange program at KTH Royal Institute of Technology in Sweden from 2022 to 2023.

EXPERIENCE IN COMPUTER SCIENCE

Thingnario

Taipei, Taiwan

Site Reliability Engineering Intern

Jun. 2023 - Aug. 2023

• Enhanced operational efficiency by integrating testing scripts across diverse servers through the centralized scheduler/runner Cronicle, consolidating error messages into a single database for streamlined management and impactful troubleshooting.

• Research Institutes of Sweden (RISE)

Stockholm, Sweden

Research Intern, supervised by Dr. Paris Carbone

Apr. 2023 - Jul. 2023

o Improved the efficiency of the Java-based project Crayfish by refactoring and dockerizing its structure to optimize the throughput assessment of machine learning models across diverse streaming frameworks, leading to its acceptance to EDBT/ICDT 2024.

Mobagel

Taipei, Taiwan

Software Engineer Intern

Jun. 2022 - Aug. 2022

- Engineered error codes for Decanter AI's AutoML system, optimizing the handling of data processing, model training, and prediction requests, resulting in enhanced error message feedback at the web frontend.
- o Streamlined the "sanitizing" module responsible for managing special characters in file headers during user dataset uploads, contributing to improved data quality and user experience.

Sensay

United States (Remote)

Machine Learning Intern

Jul. 2021 - Aug. 2021

- Enhanced automated speech assessment on Sensay's English learning platform by leveraging machine learning techniques from early ETS research (2008-2014), resulting in an improved scoring system based on the company's dataset.
- Innovated language learning tools by developing an interactive audio visualization feedback system, incorporating insights from academic papers on acoustic feature visualization for pronunciation training, fostering an engaging platform for students to enhance their speaking skills.

• Innoveon

Taipei, Taiwan

Deep Learning Intern

Jul. 2020 - Sept. 2020

- Contributed to the development of an image alignment algorithm for defect detection in racket production, integrating techniques from 4 influential papers centered around convolutional neural networks (CNN).
- Executed experiments on data augmentation with the company's dataset, implementing feature disentanglement methodologies from 3 relevant papers based on variational autoencoders (VAE).

• Institute of Information Science, Academia Sinica

Taipei, Taiwan

High School Research Project, supervised by Dr. Li Su

Aug. 2018 - Jul. 2020

- o Published a first-authored paper "Body Movement Generation for Expressive Violin Performance Applying Neural Networks" in ICASSP 2020. [IEEExplore]
- Developed a neural-network-based framework for generating expressive violin performance body skeletons.
- o Executed comprehensive subjective and objective evaluations, assessing the likeness and naturalness of the generated skeleton.

EXPERIENCE IN SOCIOLOGY

• Institute of European and American Studies, Academia Sinica

Taipei, Taiwan

Research Assistant, supervised by Dr. Min-Hsiung, Huang

Apr. 2024 - Jul. 2024

• Analysed cross-national longitudinal datasets, such as Programme for International Student Assessment (PISA) and the Taiwan Educational Panel Survey (TEPS), to investigate educational inequality in Taiwan.

• Institute of Sociology, Academia Sinica

Taipei, Taiwan

Research Assistant, supervised by Dr. Hsuan-Wei Lee

Sept. 2021 - Feb. 2023

• Implemented Python-based replication of 21 agent-based modeling papers from AJS and ASR, ensuring rigorous reproducibility standards and enhancing the reliability of sociological research methodologies.

ACTIVITIES

• 2022 & 2023 APCS Camp

Taipei, Taiwan

C++ Lecturer

Mar. 2022 - Jul. 2023

 \circ Designed teaching materials and delivered online lectures on fundamental concepts of functions and recursion in C++ to 80 high school students, aiding their preparation for the Advanced Placement Computer Science (APCS) test in Taiwan.