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**EDUCATION**

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- **National Taiwan University (NTU)** Taipei, Taiwan  
*Bachelor's degree in Computer Science and Information Engineering* Sept. 2020 – Jun. 2025  
*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).
  - Completed one-year exchange program at KTH Royal Institute of Technology in Sweden from 2022 to 2023.

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**EXPERIENCE IN COMPUTER SCIENCE**

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- **Thingnario** Taipei, Taiwan  
*Site Reliability Engineering Intern* Jun. 2023 – Aug. 2023
  - Integrated testing scripts across diverse GCP servers using the centralized scheduler/runner Cronicle, consolidating error messages into an Elasticsearch-powered database for streamlined log analysis and more effective troubleshooting.
- **Research Institutes of Sweden (RISE)** Stockholm, Sweden  
*Research Intern, supervised by Dr. Paris Carbone* Apr. 2023 – Jul. 2023
  - Dockerized and refactored the Java-based throughput assessment of machine learning models across various stream-processing frameworks (e.g., Apache Flink, Kafka Streams, and Spark Streaming) to simulate real-world performance in an industrial setting, leading to its acceptance at EDBT/ICDT 2024.
- **Mobagel** Taipei, Taiwan  
*Software Engineer Intern* Jun. 2022 – Aug. 2022
  - Developed error codes for Decanter AI's AutoML Scala-based system, optimizing data processing, model training, and prediction request handling, which improved error message feedback on the web frontend.
  - Optimized the "sanitizing" module responsible for managing special characters in file headers during user dataset uploads, enhancing 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 applying machine learning techniques from early ETS research (2008-2014), improving the scoring system based on the company's dataset.
  - Developed an interactive audio visualization feedback system for language learning, integrating insights from academic research on acoustic feature visualization for pronunciation training, fostering a more engaging and effective platform for students.
- **Innoveon** Taipei, Taiwan  
*Deep Learning Intern* Jul. 2020 – Sept. 2020
  - Developed an image alignment algorithm for defect detection in racket production, incorporating techniques from four influential papers on convolutional neural networks (CNNs).
  - Conducted experiments on data augmentation using the company's dataset, applying feature disentanglement methods from three key papers on variational autoencoders (VAEs).
- **Institute of Information Science, Academia Sinica** Taipei, Taiwan  
*High School Research Project, supervised by Dr. Li Su* Aug. 2018 – Jul. 2020
  - Published a first-authored paper "Body Movement Generation for Expressive Violin Performance Applying Neural Networks" in ICASSP 2020. [\[IEEEExplore\]](#)
  - Developed a neural network-based framework with Keras to generate expressive violin performance body skeletons.
  - Conducted comprehensive subjective and objective evaluations to assess the likeness and naturalness of the generated skeletons.

## EXPERIENCE IN SOCIOLOGY

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- **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
  - Replicated 21 agent-based modeling papers from the sociology journals AJS and ASR using Python, ensuring rigorous reproducibility standards and enhancing the reliability of sociological research methodologies.

## ACTIVITIES

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- **2022 & 2023 APCS Camp** Taipei, Taiwan  
*C++ Lecturer* Mar. 2022 – Jul. 2023
  - 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.