Jun-Wei Liu

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EDUCATION

- **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.

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*
  - 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, Sweden
  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.
  - 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
  Machine Learning Intern — *Jul. 2021 – Aug. 2021*
  - Enhanced automated speech assessment on Sensay's English learning platformby 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*
  - 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
  - Executed comprehensive subjective and objective evaluations, assessing the likeness and naturalness of the generated skeleton.