Chin Fang Hsu (Frank Hsu)

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EDUCATION

Santa Clara University Santa Clara, CA
Masters of Science in Computer Science and Engineering December 2022-June 2024

- GPA 4.0/4.0
- Relevant Coursework: Algorithm Design and Analysis, Computer Network, Machine Learning, Computer Architecture

Masters of Science in Information Systems August 2022-December 2022

- GPA 4.0/4.0
- Dean's List
- Relevant Coursework: Data Management System, Information Systems Analysis and Design, Data Analytics

National Taiwan University Taipei, Taiwan
Bachelor of Business Administration in Finance June 2021

- Book Prize, 2020 (Top 5% of 2020 school year)
- Relevant Coursework: Data Structures and Algorithms, Machine Learning

EXPERIENCE

TSMC Taipei, Taiwan
Software Development Engineer Intern (starting from July) July 2022-September 2022

PaGamO Taipei, Taiwan
Software Development Engineer March 2022-June 2022

- Implemented functionalities on a reading platform and its database with Python and MySQL to flag students requiring extra learning support.
- Managed and oversaw development plans, including communicating requirements, designing systems, implementation, testing products, and deployment. Reported work process and presented a final report to external clients.
- Collaborated with education experts to generate models to identify students requiring extra learning support with Pandas.

Ares, CO Taipei, Taiwan
Software Development Engineer November 2021-March 2022

- Developed merchandise management systems for business clients with C# and Analytics. NET. Implemented functionalities, including sales forecasting, inventory management, and cost control.
- Created time series analysis models for sales forecasting and generated an accuracy of 90% within 15% of NRMSE. Increase 50% of inventory turnover for retail products.

National Taiwan University Taipei, Taiwan
Research Assistant (Department of Information Management) August 2021-November 2021

- Analyzed campus air quality data with Pandas and Matplotlib and formulated a prediction model to decrease RMSE by 20% using decision tree algorithms.
- Corresponded with the Department of Atmospheric Science to deploy over 40 environment sensors on campus. Tracked data generated by sensors to detect potential sensor malfunction.
- Proposed managing strategies and restrictions on school facility usage based on prediction models and air quality analysis.

SIDE PROJECTS

GatherEase:

- Developed Event organizing platform supporting event registration, user check-in and event ticket management with django framework.
- Deployed service on AWS EC2 with Gunicorn and Nginx to allow the first use case of event hosting with around 300 attendees.

PetSim:

- Developed AI based pet owner simulator game based on ChatGPT API and stable diffusion API with Flask framework.
- Experimented AI based game data generation. Implemented data extraction and parsing to python objects.