

KAI-HSIN HUNG

Stockton, CA

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EDUCATION

University of the Pacific, Stockton, California

Aug. 2024 - May. 2026

Master of Science in Data Science, **GPA: 3.92 / 4.0**

Relevant Courseworks: Relational Databases, Machine Learning, Natural Language Processing

Ming Chi University of Technology, New Taipei City, Taiwan

Bachelor of Science in Material Science and Engineering

Jun. 2023

SKILLS

Programming: Python, SQL, JavaScript

Data Science & ML: Deep Learning, Time Series Forecasting, Natural Language Processing (NLP), Statistical Testing (t-tests, ANOVA), Power BI, Tableau

Frameworks & Tools: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Flask, React, Git, REST APIs, MySQL, SQLite, Render

EXPERIENCE

Birthday Messaging, London, UK (Remote)

Mar. 2025 - May. 2025

Software Developer Intern (Full-Stack)

- **Delivered 100% accurate** cross-time-zone birthday email scheduling by implementing a timezone-aware **Flask + APScheduler** system with cancellation/tracking features, improving reliability of automated communication.
- **Reduced manual entry time from hours to seconds** by engineering a file upload pipeline with **StringIO + datetime** that processed **1,000+ contacts** at once.
- **Boosted usability scores by 25%** through designing a responsive **React/Vite** overview page and timezone dropdown, enabling smooth user interactions across devices.

SELECTED PROJECTS

Time Series Forecasting of TSMC Stock Prices

Jun. 2025

Full-Stack Python, Flask, React, TensorFlow/Keras

- **Developed and optimized Deep Learning models (LSTM, GRU, Conv1D)** for **Time Series Forecasting**, leveraging **Keras Tuner** for **hyperparameter optimization** to achieve a **15% improvement in predictive accuracy** over baseline models.
- **Engineered** full-stack deployment on **Render**, including automated **data ingestion** and **model retraining** pipelines, ensuring scalable, production-ready access.

NYC Traffic Collision Analysis Dashboard

July. 2025

Full-Stack Python, Flask, React, Plotly, Power BI

- **Analyzed over 2.1M+ collision records** via **Exploratory Data Analysis (EDA)**, building an **ETL pipeline in Python** to ensure **data quality** and prepare data for visualization.
- **Optimized backend data pipelines** and served real-time updates via a **Flask API** to a **React UI**, enhancing frontend responsiveness by **20%**.

AI-Powered Resume Analyzer

July. 2025

Full-Stack Python, Flask, React, Pandas

- **Increased user engagement by 25%** by creating an **AI-driven** resume feedback system that integrated **Adzuna + SerpApi** job data with Coursera recommendations.
- **Accelerated keyword extraction by 40%** through building a resume **parsing** and **NLP pipeline** in **Pandas**, delivering instant insights to users.