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

Relevant Courseworks: Thermal Dynamics of Materials, Engineering of Mathematics, Semiconductor Processing

SKILLS

Programming & Analytics	Python, SQL, JavaScript, Statistical Testing (t-tests, ANOVA), Power BI, Tableau
Frameworks & Libraries	Flask, React, Vite, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Plotly
Databases & DevOps	MySQL, SQLite, Git, REST APIs, 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

NYC Traffic Collision Analysis Dashboard   July. 2025

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

- Identified top crash hotspots and high-risk hours from 2.1M+ collision records by building ETL pipelines in Python and deploying analytics dashboards.
- Enhanced frontend responsiveness by 20% through optimizing data pipelines and serving real-time updates from a Flask API to a React UI.

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 + NLP pipeline in Pandas, delivering instant insights to users.

Time Series Forecasting of TSMC Stock Prices   Jun. 2025

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

- Improved prediction accuracy by 15% over baseline by optimizing LSTM/GRU/Conv1D models with KerasTuner.
- Automated daily stock data ingestion by engineering pipelines for fetching, cleaning, and formatting time-series data, enabling consistent model retraining.
- Expanded technical scope to cloud by deploying the full stack (Flask backend + React frontend) on Render, ensuring scalable, production-ready access.