Alexander Hung

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Software Developer

I am a recent Computer Science graduate from Hawaii with a long-standing passion for tackling real-world challenges through coding. I built a strong foundation in software engineering through independent projects and data science-focused coursework. Now, based in Chicago, I am actively seeking new opportunities where I can apply my skills, grow professionally, and contribute to innovative teams.

Technical Proficiencies

Frameworks & Libraries:	React.js, Node.js, Flask, Express.js, TensorFlow, Scikit-learn, Pandas, NumPy
Languages:	Python, JavaScript, HTML/CSS, SQL, C#, Java, TypeScript
Tools & Platforms:	GitHub, Linux

Personal Projects

Why Fires   10/2023 – Present

Objective:
- Develop a full-stack application that uses NSA FIRMS MODIS data and GADM boundary data to visualize and provide insightful and statistical analysis of wildfires with both frontend and backend architecture using React and Flask.

Contribution:
- Created a Web UI that represents over 107 million data rows through interactive dashboards that use color and spatial mapping via data visualization
- Developed statistical breakdowns through temporal trends, geographic distributions, and comparative analysis with clear, informative charts
- Implemented machine learning models for regression-based fire prediction by transforming the data to deliver preliminary forecasts despite ongoing technical challenges related to model flexibility and hardware limitations
- Utilized GitHub for version control and collaboration, ensuring code quality and future team coordination
- Provided continuous support to refine both the system and predictive capabilities to improve performance and insight accuracy.

Education

Bachelor of Science in Computer Science, Data Science Track
University of Hawaiʻi, Mānoa, Honolulu, Hawaii, 08/2021 - 05/2024
Coursework: Big Data Analytics | Data Science Fundamentals | Data Visualization | Intro to Climate Modeling | Introduction to Econometrics I | Machine Learning Fundamentals