Alexander Hung

Software Developer

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I'm a newly graduated software developer from Hawaii, raised in a fantasy city that led me to the area of Computer Science that I couldn't resist. My passion for developing software was first back in middle school, the way software development fundamental concepts, structures, and techniques associated with building blocks.

After spending much of my college experience under the COVID restriction, I'm now navigating and ready to translate my academic experience into the professional world with fresh eyes and exploration spirits to the new environment that has been changed. I moved to Chicago, a brand-new city for me to challenge and not fully rely on the resources I had.

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**
https://github.com/Alexander-Hung/Why-fires

What does this project do:
- Why-Fires project is a full-stack application that uses NASA FIRMS MODIS and GADM boundary data to visualize to provide insightful and statistical analysis of wildfires with frontend and backend architecture using React and Flask.

What did I contribute to this project:
- 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.
- Utilized GitHub for version control and collaboration, ensuring code quality and future team coordination
- 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
- 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 | Capstone Project | Data Science Fundamentals | Data Visualization Intro to Climate Modeling | Introduction to Econometrics I | Machine Learning Fundamentals

Languages

English & Mandarin, Fluent