Alexander T. Hung

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Software Developer Profile

Highly motivated individual with a strong foundation in object-oriented programming, data structures, and algorithmic problem-solving. Capable of overseeing full-stack web development using JavaScript, React.js, Node.js, and Flask, combined with experience in machine learning and AI model development utilizing TensorFlow, PyTorch, and Scikit-learn. Proven ability to build scalable APIs, design intuitive UIs, and deploy solutions on cloud platforms including AWS, Azure, and GCP. Expert in applying big data analytics, data preprocessing, and predictive modeling in academic and real-world projects. Innate capacity to analyze large volumes of data, create predictive models, and provide actionable insights that support data-driven decision-making.

Technical Proficiencies

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

Education

Bachelor of Science in Computer Science, Data Science Track
University of Hawai'i, Mānoa, Honolulu, HI, 05/2024
Coursework: Big Data Analytics | Capstone Project | Data Science Fundamentals | Data Visualization Intro to Climate Modeling | Introduction to Econometrics I | Machine Learning Fundamentals

Machine Learning, Data Science, & Database System Training Program
University of Hawai'i, Mānoa, Honolulu, HI, 05/2024

Academic Projects

Project Name: Why Fires **10/2023 – Present**
Role: Independent Developer
Objectives: To evaluate brush fire risk in a given area and estimate potential spread, enabling proactive prevention and mitigation strategies.

Elevate user satisfaction; craft intuitive interfaces and streamline data workflows for smooth, responsive digital experiences.

- Enhanced fire prevention and risk mitigation by designing analysis and visualization system to uncover critical variables and recurring patterns in fire incidents.
- Maximized application efficiency by engineering resilient backend infrastructures and high-performance, scalable APIs.

Languages

English & Mandarin, Fluent
Japanese, Basic Knowledge

Awards

Dean's List - University of Hawai'i at Mānoa 2021 - 2024