Alexander Hung

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Programming Language | Analysis and Modeling | Data Manipulation

Academic experience demonstrates proficiency in statistical analysis, programming, and machine learning. Strong skills in Python, R, and SQL, with experience in machine learning projects like brush fire risk assessment and receipt data processing. Supported by coursework in data science fundamentals and big data analytics.

EDUCATION

University of Hawaii at Manoa - *Honolulu, Hawaii*
Bachelor of Science – Computer Science. GPA: 3.41. May 2024

PROFESSIONAL SKILLS

- Proficiency in Python, R, SQL, JavaScript, C/C++, ETL, Frameworks (React, Angular…)
- Strong analytical skills (data cleaning, manipulation) and Knowledge of statistical tests (distributions, maximum likelihood estimators).
- Experience with Machine Learning algorithms (scikit-learn, tensorflow).
- Outstanding organizational, multitasking, and problem-solving abilities.
- Excellent communication skills with a focus on team building.

ACADEMIC EXPERIENCE

OSD Modeling & Simulation - *Honolulu, Hawaii*   2024 - PRESENT
Sponsored By NSIN (National Security Innovation Network)
Communications and Technical Lead
The U.S. government is interested in exploring models to inform optimization planning for the use of unmanned systems employment

- Created model that selects the optimal autonomous vehicles for user-defined criteria including mission duration, base point, and range and implemented model using AWS API.
- Interactive UI with backend support.
  - Inputs & Result pages: Coordinates, Drones & optimization parameters.
  - Map displays base and recon locations in the map using markers & Geodesic lines/circle.

LINK: [github.com/OSDModeling/OSDModeling-Work](#)

University of Hawaii at Manoa - *Honolulu, Hawaii*   2023
Computing Ethics for LAs – ATA (assistant TA)
Facilitated collaborative learning and enhanced student success in Information and Computer Sciences through interactive training, mentoring, and a focus on academic integrity and ethical practices

- Facilitated discussions and workshops on computing ethics principles and case studies.
- Improved student engagement and understanding of ethical dilemmas in computing, reflected in positive feedback and increased participation rates.

University of Hawaii at Manoa - *Honolulu, Hawaii*   2023
Receipt Parsing - Data Processing and Machine Learning Modeling
To develop a system that efficiently parses receipt data, classifies vendors and products, and displays relevant analytics.

LINK: github.com/ICS438Project/receipt

University of Hawaii at Manoa - *Honolulu, Hawaii*   2023
Why Fires – Prototype Design and Team lead
Analyzing and visualizing fires to find out the variables causing the fires.

LINK: github.com/why-fires/why-fires-app

University of Hawaii at Manoa - *Honolulu, Hawaii*   2023
ML for Assessing Brush Fire Risk in USA
The model is expected to predict and assess whether an area may be at risk for brush fires and how much area it could potentially cover. This should be able to save lives so that citizens are prepared to evacuate in lieu of a brush fire breakout**.**

AWARDS AND HONORS

Dean's List - *University of Hawaii at Manoa*   12/2021 and 5/2023 – 5/2024
- Completed 12 or more letter-graded units during the quarter with a 3.5 or higher GPA.
- Worked closely with professors and advisors to complete assigned tasks and activities.

LANGUAGE COMPETENCIES

- Chinese (Mandarin): native language
- English: fluent (speaking, reading, writing)
- Japanese: intermediate (listening)