Matt Motoki

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SUMMARY

I am a first-year ECE PhD student at the University of Washington advised by Baosen Zhang. My research interests lie at the intersection of power systems and machine learning.

WORK EXPERIENCE

Senior Data Scientist at Shifted Energy — Honolulu, HI   AUGUST 2021 – PRESENT
— Leading the development of algorithms for control, inference, and forecasting for devices such as electric resistance water heaters, heat pump water heaters, electric vehicles, and pool pumps.
— Algorithms are used in thousands of devices worldwide.

Senior Data Scientist at H2O.ai — Mountain View, CA   MAY 2020 – JULY 2021
— Developed and implemented new algorithms and features for the company's AutoML software.
— Aided customer-facing data scientists in solving problems for Fortune 500 companies.

Senior Data Scientist at Iterable — San Francisco, CA   JUNE 2019 – MARCH 2020
— Analyzed terabytes of data and developed machine learning and Bayesian methods for large-scale engagement prediction at a top growth marketing startup.
— Sped up parts of the feature engineering pipeline up to 10 times using iterative feature updates.

Data Science Consultant — Honolulu, HI   JULY 2017 – JUNE 2019
— Worked with various clients to analyze data, develop predictive models, and create dashboards.
— Clients included a UK-based remote sensing startup, researchers, and various local startups.

Data Scientist at HiVet Solutions — Honolulu, HI   MARCH 2016 – MAY 2017
— Worked with the HR and Finance departments to optimize hiring and salary compensation.

EDUCATION

MS in Electrical Engineering, GPA: 4.00, University of Hawaiʻi at Mānoa   GRADUATED DECEMBER 2015
— Optimized water heaters using reinforcement learning techniques.
— Presented results at the 2015 International Joint Conference on Neural Networks.

BS in Mathematics, GPA: 3.76, University of Hawaiʻi at Mānoa   GRADUATED AUGUST 2014
— Researched inner Earth dynamics to better simulate convergent plate boundaries.
— Published a paper in the American Geophysical Union journal G-Cubed.

PROJECTS

— Kaggle Competitions Grandmaster: Ranked as high as 18th in overall global rankings.
— Hawaii ML Meetup Organizer: Hosted meetups, study groups, and an ML competition.
— Cell Division: Created a biology-inspired board game with an AI opponent.

SKILLS

Python • PyTorch • R • Apache Spark • JavaScript • HTML • CSS • C++ • AWS