

# Dave Ho

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dave.ho@ucla.edu ♦ San Jose, CA ♦ (408) 334-6432 ♦ <https://daveho.me>

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*Aspiring Software Engineer passionate in the field of AI, Machine Learning, and algorithms design. My previous experiences include projects to train ML prediction models and to build and design data processing platforms.*

*I'm looking for opportunities to further my exposure in software development, data science, and to apply the theories I've learned to solve real-world problems at scale.*

## EDUCATION

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### UNIVERSITY OF CALIFORNIA AT LOS ANGELES

Major in Computer Science; Minor in Statistics, Sep 2019 – Jun 2023 | GPA: 3.92

## EXPERIENCE

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### **Software Engineer Intern – ML Foundations** Snorkel AI, Palo Alto, CA Jun 2022 – Sep 2022

- Series C AI startup specialized in Data-Centric AI through foundation models and weak supervision: [link](#)
- Implement label / ground-truth versioning mechanism
- Integrated ground truth DAG versioning, allowing users to rollback to previous versions of models
- Developed in-place dataset swaps for applications, a first-class solution to update dataset schemas

### **Software Engineer Intern – ML Foundations** Snorkel AI, Palo Alto, CA Jun 2021 – Sep 2021

- Enhance the labeling functions and weak supervision foundation framework
- Enabled trainable preprocessors, to allow operators to be fitted to application datasets.
- Implemented user-defined operator classes, allowing clients to export their own operators via application DAG
- Implemented user-defined model classes, allowing registration of custom models via Jupyter Notebook
- Developed user improvements to estimated model training time, proper error surfacing, and transparency.

### **Data Science MTS** VMware, Palo Alto, CA Jul 2019 – Jun 2020

- Build predictive models to classify security issues and automate security triaging process of virtual machines.
- Build predictive models to estimate likelihood of workload timeouts, enable proactive recovery actions.
- Construct time-series models to predict workload / cost, and detect anomalies of machine activities
- Develop an experimental reinforcement learning algorithms: [link](#)
- Deliver internal training on Deep Learning, PyTorch and NLP the engineering community: [link](#)

### **Machine Learning Engineer** Twyne, Los Angeles, CA Jul 2019 – Jun 2020

- Twyne helps users interact with the world through simple and natural motions by bringing automated and customizable ML-based gesture recognition to the smartwatch.
- Built and trained Spectrogram Fourier Transform of time series data and LSTM model in PyTorch
- Developed framing and labeling scripts to process gesture motion data from smartwatch wearable
- Improved model and customization of user gestures with Siamese networks (boost from 87% to 95% accuracy)
- Constructed prototype that uses gestures to navigate slides in PowerPoint presentation

## AWARDS

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### **Snorkel AI: Engineering Award** Aug 2022

- Implementation of Trainable Operators and User Defined Classes

### **Snorkel AI: Engineering Award** Jun 2021

- Implementation of Ground Truth and Application DAG versioning

### **UCLA: Best Hack, Hack on the Hill 7** Feb 2020

- 12 Hour Hack: Joint song guessing party game built with React JS and Spotify API

## SKILLS & INTERESTS

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**AI / ML** PyTorch, CNN, RNN, GNN, GAN, BERT, Pandas, sklearn, Numpy

**Program Lang** Python, C++, Java, Javascript, SQL, R

**Systems** Linux, Git, RDBMS, Flask, Node.js, CircleCI, AWS, FastAPI, Pytest, React, Jest