

Dave Ho

I am a hobbyist developer interested in the fields of Machine Learning and AI, iOS, and Web Development. I am excited for the future of tech and am looking for more opportunities to work with others to build cool projects.

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EDUCATION

Computer Science

University of California, Los Angeles

09/2019 – 06/2023

WORK EXPERIENCE

Data Science MTS

VMware

07/2019 – 12/2019

Palo Alto, CA

Achievements/Tasks

- Built Machine Learning models to automate security triaging process of virtual machines and classify true security issues
- Built Machine Learning models to predict workload timeouts on VMs, enabling proactive recovery actions to be taken
- Constructed multi-dimensional time-series prediction models to detect anomalies within machine health that would result in high cost and usage
- Developed a suite of Reinforcement Learning frameworks (DQN, DDPG, Reinforce, Actor Critic) [↗](#)
- Designed Deep Learning and PyTorch workshop for VMware community [↗](#)
- Developed advanced NLP techniques for a lab in an internal ML conference [↗](#)
- Continued engagement as a part time consultant for Data Analytics and ML

iOS Developer

9Eighteen [↗](#)

08/2018 – 06/2019

San Jose, CA

9-Eighteen Solutions Inc provides cost-effective smart device applications designed to eliminate the communication gap between golfers and the food and beverage services of golf courses.

Achievements/Tasks

- Designed and developed end-to-end application including golfer mobile app, golf cart deliverer mobile app, and backend logic
- Tasks included implementing live location tracking feature to give continuous geological updates to users regarding their orders
- Mobile apps launched on the App Store, serving upwards of 9 golf courses. [↗](#)

iOS Developer

(E)emergency

12/2017 – 08/2018

San Jose, CA

Eemergency is a mobile platform that tracks live location updates of on-duty emergency vehicles and alerts drivers in the vicinity to pull over to safety.

Achievements/Tasks

- Designed and developed end-to-end application including driver mobile app, emergency vehicle responder tracker, and backend logic
- Cooperated with local fire and police departments and developed system to securely use emergency vehicle locations to create moving geofences
- Filed three provisional patents on our emergency platform architecture

SKILLS

ML / DL / RL / NLP / PyTorch

Python / R / Java / Swift / JavaScript

iOS / Web Development

SQL / Web services API

PERSONAL PROJECTS

Perspective VR (07/2017 – 09/2017) [↗](#)

- Virtual Reality puzzle game where the player has to move his or her perspective to line up and create certain objects to continue to the next level.
- Developed core mechanics of the game such as gaze positions and directions and researched virtual reality technology

ThoughtJar (01/2018 – 07/2018) [↗](#)

- Distributed survey platform allowing users to quickly gather unbiased public opinions through distributed micropayments.
- Full-stack developer for mobile app, web app, and backend services.

ORGANIZATIONS

UCLA DevX

Program dedicated to build out projects to help tackle pressing problems frustrating the UCLA community.

ACM AI

UCLA ACM AI is focused on creating and developing a community of UCLA students who are interested in artificial intelligence and machine learning.

PATENTS AND AWARDS

Provisional Patent: Scalable Real Time in Memory Storage and Indexing for Emergency Response System (03/2018)

Provisional Patent: Dynamic Geofence Algorithm for Emergency Response System (03/2018)

Provisional Patent: Smart Dynamic Alerting System (03/2018)

Math League Nationals 2nd (05/2018)

PSAT NMSQT Winner (03/2018)