Expected Graduation: June 2021

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EDUCATION

University of California, Irvine

Computer Science and Engineering, B.S; GPA: 3.76

Irvine, CA

o **Coursework**: Object Oriented Programming, Robotics, Linear Algebra, Algorithmic Design, Data Structures, Discrete Math, & Computer Organization

o Organizations: Association for Computer Machinery & Society of Automotive Engineers

SKILLS

Languages: Java(Proficient), C/C++(Intermediate), & Python(Intermediate)

Technologies: Git(Proficient), ROS(Intermediate), PyTorch(Intermediate), & MySQL(Novice)

EXPERIENCE

Data Science Intern May 2019

Lawrence Livermore National Lab

Livermore, CA

- 2 week intensive data science challenge exploring antibody interactions & computational biology
- \circ Implemented various machine learning models & feature selection to improve AUROC Curve by 10%

Lab Research Intern October 2018 - May 2019

 $Mechatronics\ Embedded\ Systems\ {\it \& }\ Automation\ Lab$

Merced, CA

- o Collaborated with two Ph.D. students on embedding awareness into drones with deep learning algorithms
- $\circ\,$ Developed pipeline tools to process over 10,000 flight logs as well as simulating drone flights with ROS, Gazebo, & PX4
- Tuned neural network performance under different hyperparameters with Matplotlib; presented paper & work at ICUAS 2019

Assistant Project Manager

January 2018 - December 2018

Unmanned Aerial Systems

Merced, CA

- Led a team of three computer scientist and seven mechanical engineers to develop an NDVI image analysis system that detects water stress areas in Merced Vineyards
- Debugged OpenCV framework issues and redesigned image analysis program, as well as overseeing prototyping, testing, and delivery phases
- Proposed, secured, and managed \$4000 to include software & hardware purchases

Camp Counselor

Summer 2014 - Summer 2017

Head-Royce School

Oakland, CA

- Assisted teachers to cultivate a rich learning experience to campers
- Worked with camp counselors, teachers, and administrators to offer a fun environment for the campers
- Ensured all campers reunite with their guardian safely at the end of the day

HACKATHONS

Lost Dog Finder: First in the Entrepreneurial Track at HackMerced 2019

• Developed a mobile web app enabling communities to locate lost pets. Users upload photos of lost dogs which would get classified by a machine learning model built with AutoML-Vision and stored into our database for querying.

Public Transport Tracker: Won "Best IoT Hack" at HackMerced 2017

• Designed a program, which utilizes the GPS chip on a Qualcomm DragonBoard 410c, to tackle UC Merced's poor bus schedule by notifying users of all bus location.