

# Jeffrey Ng

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## EDUCATION

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### University of California, Irvine

Expected Graduation: June 2021

*Computer Science and Engineering, B.S; GPA: 3.69*

*Irvine, CA*

- **Coursework:** Object Oriented Programming, Robotics, Machine Learning, Linear Algebra, Algorithmic Design, Data Structures, Discrete Math, & Computer Organization
- **Organizations:** President & Co-founder of Applied Machine Learning Group

## SKILLS

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

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

## EXPERIENCE

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### Data Science Intern

May 2019

*Lawrence Livermore National Lab*

*Livermore, CA*

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

### Lab Research Intern

October 2018 - May 2019

*Mechatronics Embedded Systems & Automation Lab*

*Merced, CA*

- Collaborated with two Ph.D. students on embedding awareness into drones with deep learning algorithms
- 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

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### 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.