

# Apollo Jain

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<https://www.github.com/apollojain>

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## EDUCATION

### UC Berkeley

M.S. EECS, May 2018

GPA: 3.9

**Coursework:** Stochastic Processes, Database Systems, Deep Time Series Learning, Computer Vision

**Teaching:** Designing Information Devices and Systems II (Circuits, Controls, and Signal Processing)

**Thesis:** EV Infrastructure Planning and Grid Impact Assessment: A Case for Mexico

### UC Berkeley

B.S. EECS, May 2017

GPA: 3.6

**Coursework:** Signals and Systems, Optimization Models, Engineering Statistics, Algorithms, Artificial Intelligence, Machine Learning, Discrete Math and Probability

**Organizations:** ASUC Student Government (CTO), Robotics at Berkeley (Co-Founder, Vice President), Hackers at Berkeley (Director), Kairos Society

**Awards:** Cal Alumni Association Leadership Award, Oski Student Leadership Award, Fung Fellowship for Wellness and Technology

## EXPERIENCE

### Anduril Industries: Perception Engineer

Nov 2018 - Present

- Serve as lead developer on a new maritime tower product, including radar and AIS processing code, general infrastructure, a boat-specific sensor fusion tracking model, and a logistic regression based hostile boat classifier
- Created a 3D EKF Based Drone Tracking Model built on top of a solid state radar to track a small drone to 1km. Currently used in a drone interceptor tracking loop, and in the field internationally.
- Created an EKF-based general purpose model for fusing high-confidence measurements (ADSB, AIS, GPS) into the system's global tracker

### UC San Francisco: Research Engineer

Aug 2017 - Nov 2018

- Created an infrastructure pipeline in order to identify features to compute visual and text based features of MRIs
- Created a SVM-based classification model to differentiate between MRI DICOM image types and refined a CNN-based model for the same purpose

### Palantir Technologies: Engineering Intern

May 2017 - Aug 2017

- Coded custom software solutions using the Palantir Gotham product for clients in the government regulatory space
- Won the Palantir Hack Week for an NLP slang and synonym detection project

### Tesla Motors: Engineering Intern

Jan 2016 - May 2016

- Focused on testing and verifying different properties of various parts of the Model 3 Powerboard
- Created a web application application using Django to keep track of and simulate car part lifetimes

## PROJECTS

### Mediate

Apr 2019

Worked in a four person team for YCombinator Hacks in order to build a pair of glasses for recording, searching, and querying conversations. Used an Arduino Feather, Bluetooth Module, Google Cloud Speech, and MongoDB.

### Brainwalk

Sep 2017 - Aug 2018

Worked in a four person team on a neurodegenerative disease diagnostics project in conjunction with the UCSF Bove Lab and the Fung Fellowship. Created infrastructure in Python (Scikitlearn and SciPy) to connect the three portions of the project: Eye tracking data, sound-based signal processing, and gait data.

### EV Station Location Generation

Aug 2017 - Nov 2017

Worked as part of a larger team on a Mexico City improvement project. Devised a grid-based placement algorithm in conjunction with a convex optimization approach to place and quantify the locations, earnings, and environmental impact of EV charging stations. Won the UN Data for Climate Action Award for my work.

## TECHNICAL SKILLS

**Languages :** Python, Matlab, Java, C++, C, Go

**Framework :** PyTorch, TensorFlow, SciKitLearn, CVXPy, OpenGL