

Apollo Jain

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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 an Echodyne solid state radar to track a DJI Mavik sized drone to 1km. Currently used in Anduril's Anvil Interceptor, 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 a 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