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, which includes 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 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