Cedrick Argueta

Contact

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Work Experience

Current
Summer 2018

Research Intern at The Aerospace Corporation

Researched deep reinforcement learning algorithms for autonomous spacecraft maneuvering and counter-UAS drone operation. Researched adversarial machine learning techniques for image classification. Developed a novel battery scheduling algorithm for spacecraft. Applied several machine learning algorithms to anomaly detection in spacecraft battery telemetry.

Spring 2018

Course Assistant, CS 110 at Stanford University

Held office hours, led discussion sections, and graded assignments and exams for Principles of Computer Systems, CS 110. Third sophomore course assistant in course history.

Summer 2017
Summer 2016

Software Engineering Intern at NASA Jet Propulsion Laboratory

Designed and developed the CubeSat Automated Testing System, a system meant to reduce safe-to-mate testing times for generalized CubeSat boards. Created frontend using Python TKinter. Constructed backend with a Zynq SoC and National Instruments data acquisition hardware, programmed in C++.

Research Experience

Current

Stanford Intelligent Systems Laboratory

Working with Assistant Professor Mykel Kochenderfer to apply deep reinforcement learning to autonomous radio target localization. Developing and evaluating deep reinforcement learning algorithms as an alternative to traditional POMDP solvers for onboard path planning. Accepted to CS Honors program based off this work.

Winter 2018

Stanford Social Algorithms Laboratory

Worked with Assistant Professor Sharad Goel to create MathBot, a chatbot that uses natural language processing to teach high school math. Preliminary work done with visualization of curricula using d3.js.

Education

Expected 2020

B.S. with Honors in Computer Science, **Stanford University**
Concentration: Artificial Intelligence | Gpa: 3.76/4.0
Thesis: "Reinforcement Learning for Radio Target Localization" | Advisor: Mykel Kochenderfer
Notable Courses: Computer Vision, Artificial Intelligence, Algorithms (proof-based), Computer Systems, Computational Logic, Algorithmic Trading, Machine Learning
Research Interests: Deep Reinforcement Learning, Adversarial Machine Learning, Computer Vision
Studied abroad in Madrid, Spain during Winter 2019

June 2016

High School diploma, **Abraham Lincoln High School**
Rank: 1/240 | Gpa: 4.6/4.0

Awards and Honors

2018 Featured in The Aerospace Corporation's end-of-year report for contributions to company's push for AI
2017 Personally invited by Mark Daigneault, coach of the Oklahoma City Blue, to aid in player development strategies for the OKC Blue and OKC Thunder
2017 Presenter at EdSummit2017, an education conference hosted by Character Lab founder and University of Pennsylvania Professor Angela Duckworth
2016 Nominated as one of NASA JPL's most promising interns, presented by Deputy Director Larry D. James
2016 Personally invited by President Barack Obama to the White House Science Fair as a leader in education
2016 Recognized at the city, state, and national level for being one of twelve in the world to attain a perfect score on the AP Calculus AB exam