

Cedrick Argueta

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EDUCATION

STANFORD UNIVERSITY

B.S. IN COMPUTER SCIENCE

Expected June 2020 | Palo Alto, CA

Conc. in Artificial Intelligence

School of Engineering

GPA: 3.7

ABRAHAM LINCOLN HIGH SCHOOL

MATH, SCIENCE, TECHNOLOGY MAGNET

June 2016 | Lincoln Heights, CA

GPA: 4.6

Class Rank: 1 / 240

COURSEWORK

Artificial Intelligence

Design and Analysis of Algorithms

Information Retrieval and NLP

Principles of Computer Systems

Computational Logic

Computation and Cognition

Probability for Computer Scientists

Applied Matrix Theory

SKILLS

PROGRAMMING

Advanced:

C • C++ • Python

Proficient:

LaTeX • Java • Bash

Familiar:

LabVIEW • asm • JS • C#

SOFTWARE

Git • Mercurial • Linux • scikit-learn

OpenAI Gym • keras-rl • rllab

Theano • Keras • TensorFlow • Unity

VOLUNTEER WORK

Head Basketball Coach

East Palo Alto Boys & Girls Club, 2017

Academic Decathlon Coach

Abraham Lincoln High School, 2015-2016

Head Tutor

Abraham Lincoln High School, 2014-2016

EXPERIENCE

THE AEROSPACE CORPORATION | MACHINE LEARNING INTERN

Summer 2018 | El Segundo, CA

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

STANFORD UNIVERSITY | COURSE ASSISTANT, CS 110

Spring 2018 | Palo Alto, CA

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

NASA JET PROPULSION LABORATORY | SOFTWARE ENGINEERING INTERN

Summer 2016, Returned Summer 2017 | La Cañada-Flintridge, CA

- 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, gathering requirements and performing user research with existing integration and test engineers.
- Constructed backend with a Zynq SoC and National Instruments data acquisition hardware, implementing communications protocol, safe-to-mate test logic, and other functions with LabVIEW and C++.

RESEARCH

STANFORD INTELLIGENT SYSTEMS LAB | UNDERGRADUATE RESEARCHER

Present | Palo Alto, CA

Working with Assistant Professor Mykel Kochenderfer to apply deep reinforcement learning to autonomous drone hunting. Developing and evaluating deep reinforcement learning algorithms as an alternative to belief MDPs for onboard path planning.

STANFORD SOCIAL ALGORITHMS LAB | UNDERGRADUATE RESEARCHER

Winter 2018 | Palo Alto, CA

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

AWARDS AND HONORS

- 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 UPenn 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
- 2015 One of twelve in the world to attain a perfect score on the AP Calculus AB exam