MAX MOREHEAD

114 Hubbard Ave, Pleasant Hill CA

(925)-408-1477 \$\phi\$ moreheadmax@gmail.com \$\phi\$ https://moreheadmax.me

EDUCATION

University of California, San Diego

Sept. 2017-Present

BS in Computer Science Current GPA: 3.58 Expected Graduation Date: June 2021

EXPERIENCE

Robotics and Programming Tutor, Valley View Middle School

Sept. 2014-June 2018

- · Helped start and sustain an after-school robotics program, working with middle school technology teacher.
- · Worked as volunteer and paid staff for the Girls in Robotics Leadership (GIRL) week-long camp; tutored middle school girls and fixed technical problems.
- As Head Coach for the 2017 GIRL camp, adapted and developed GIRL camp curriculum and plans; worked to adapt curriculum for 2018 STEM camp for boys as Head Coach.

FIRST Robotics Team 6662, Founder, Former President, and Mentor

Jan. 2016-Present

- · Founded a high school robotics team from scratch over the course of two years.
- · Participated in the intensive and international FIRST Robotics competition, leading team to Judge's award.
- · Learned, applied and taught engineering, automation, fabrication, and Java programming skills.
- · Currently serve as an adult mentor.

Research Intern, Michigan State University

June 2016-Aug. 2016

- · Research team member under Dr. Laura Chomiuk, building an open-source repository of data from novae, a type of astronomical object
- · Led design for Open Novae Catalog; learned and applied Python and git skills.

PROJECTS

Nut Shell – Built a Unix shell interpreter in Rust to learn about the interaction between the OS and the shell.

RELEVANT COURSES

CSE 100 – Advanced Data	Data structures in $C++$, including balanced BSTs, hash tables, tries,
Structures	huffman coding, and graph data structures and algorithms.
CSE 190 – Deep Learning	Introduction to deep learning and modern neural networks. Projects include implementing backprogation in NumPy for MNIST and facial expression classification, using CNNs for lung disease classification (Xray-14 dataset) with PyTorch, and using RNNs for beer review generation in PyTorch.

SKILLS

- · Proficient in C++, Java, Python, and Rust in Linux
- · Familiar with web technologies (Javascript, CSS, HTML), Lisp (Scheme and Clojure), and SQL
- · Mechanical CAD (e.g Solidworks, Fusion 360), Electrical CAD (e.g. OrCAD Capture, KiCAD)

INTERESTS

- · 12th place in southern California ICPC regional (competitive programming)
- · Participated in MIT Battlecode game AI competition
- · Built a physical pinball machine using Arduino C and Fusion 360 CAD