MAX MOREHEAD

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EDUCATION

University of California, San Diego

Sept. 2017-Present

Current GPA: 3.56

EXPERIENCE

ServiceNow, Intern and Assoc. Software Enginner

June 2019-Present

- · Work as part of a software engineering team to create and maintain underlying platform for customers to create programmable API endpoints (as a summer intern and now part time)
- \cdot Fix bugs, write tests, and implement features for REST and GraphQL API systems
- · Completed project to provide extensible load statistics page for use by the load balancer

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.
- · Since high school, I've developed and taught engineering, automation, fabrication, and Java programming curriculum to high school students as an adult mentor

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; taught middle school girls programming, technical, and leadership skills
- 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.

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 Structures	Data structures in $C++$, including balanced BSTs, hash tables, tries, huffman coding, and graph data structures and algorithms.
CSE 190 (now CSE 154) – 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.
CSE 131 – Compilers (in progress)	Implementation of an x86 native code compiler from scratch in OCaml, including lexing and parsing, type checking, garbage collection, and optimization using ANF

SKILLS

- · Proficient in C++, Java, Python, Rust, and OCaml for 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

- · Best placer from UCSD in regional, multi-university ICPC contest as part of competitive programming club
- · Built a physical pinball machine using Arduino C and Fusion 360 CAD