Nathaniel Corley

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EDUCATION

Amherst College, Amherst, MA   *Expected May 2020*
- *Bachelor of Arts*, Computer Science and Art History Major(s)
- GPA 4.00/4.00

San Francisco University High School, San Francisco, CA   *May 2016*
- SAT: 2300, AP Scholar with Distinction

RESEARCH AND WORK EXPERIENCE

Modsy, San Francisco, CA   *May 2017 – August 2017*
Full-stack Development Intern
- Utilized Django and React to construct administration tools that expedited and scaled product workflow
- Worked with engineers and designers to develop a 3D environment for visualizing furniture in the customer's home

University of California, San Francisco Medical Center, San Francisco, CA   *May 2015 - Present*
Principal Investigator
- Conducted literature review, assisted with study design, and responsible for conduct and analysis of epidemiological research into effectiveness of celiac disease blood testing
- Used STATA and R to arrive at data-driven conclusions
- Presented poster on research results at national medical conference; journal publication as first author pending

Amherst College Quantitative Trading Club, Amherst, MA   *December 2016 - Present*
President
- Led weekly meetings, planned events, and recruited speakers for 100-student campus club
- University of Chicago Algorithmic Trading Competition Team (2017) - collaborated with classmates to create a python-based algorithmic stock trading application to enter selective contest
- Won Optiver Market Making Competition in 2017
- Wrote automated UNIX programs to gather daily stock market data, run statistical analysis, and execute trades

Morty Chess, San Francisco, CA   *January 2016 - Present*
Lead Designer
- Organized team, assigned work, and delegated design of python and C++ chess engine
- Achieved an ELO rating of +2300 (grandmaster level) through deep apprenticeship learning, among the highest for C++ chess engines
- Conducted interviews with international experts to learn about applying gradient descent algorithms to apprenticeship learning in chess

SKILLS AND INTERESTS

- **Relevant Skills:** Proficiency with Java, Python, JavaScript, React, Django; confident with SQL, Ruby, and C++
- **Relevant Coursework:** Computer Systems, Data Structures, Algorithms, UC Berkeley Artificial Intelligence (CS188), Introduction to Computer Science I and II fulfilled
- **Endurance Sports:** Youngest recorded winner of California Cycling Triple Crown (2014); solo, self-supported completion of Transamerica Trail (4,400-mile bicycle tour from Oregon to Virginia); San Francisco Marathon 2017 finisher
- **Eagle Scout:** Boy Scout Troop 14, San Francisco, CA
- **Amherst College Jazz:** Acoustic Bassist
- **University High School Varsity Tennis:** 2013-2016; 2016 team captain
- Enjoy skiing, backpacking, cycling, mountaineering, and Ultimate Frisbee