

Alexander Beaver
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Education

Woodside High School
GPA: 4.156

Graduation: June 2021

Work and Extracurriculars

Team 100 Robotics

Control Systems Lead: June 2020-Present
Software Lead: August 2017-Present

- Improved software reliability, as measured by severe software-originating problems encountered at events, by creating strict quality guidelines and procedures
- Reduced driver complexity, as measured by average operator interactions per 30-second period, by switching to a goal-oriented input philosophy and automating robot movement
- Increased development speed, as measured by duration from base code to a minimum viable product, by implementing a task-management system and creating cultural initiatives to encourage faster turn-around for code
- Grew the robotics community by sharing my knowledge through a blog that has helped over 1000 teams improve their skills

Cryptowerk

Engineering Intern: June 2019-September 2019

- Simplified developer experience, as measured by average time from new account to first API post, by evaluating ways to simplify set-up and documentation
- Assisted in maintaining investor and sales relationships by reviewing presentations and developing a full-stack mobile app that demonstrated the functionality of our API

Volunteering and Personal Projects

Gambi

June 2020-Present

- Designed and developed a secure messaging app
- Increased data security, as measured by potential risk points in the infrastructure, by transferring all data through end-to-end encryption and preventing the correlation of messages to users without the end-to-end encryption key

Renegade Robotics

Software Mentor: June 2017-September 2018

- Mentored three youths on an all-girls VEX robotics team in software understanding and quality
- Increased interest among underrepresented groups in STEM, as measured as interest of team members in pursuing STEM degrees, by offering hands-on support and education in programming
- Ensured team success, measured by awards won at competitions, by building a supportive and productive culture that prioritized quality

Awards

FIRST Dean's List Finalist

March 2019

Recognized for my contributions to the *FIRST* robotics community and exemplary leadership, including my blog and networking with other teams. Only about 100 students out of 30,000 worldwide finalized.

Languages

Fluent: English (ILR 5), Spanish (ILR 4)

Interests

Cybersecurity, foreign languages and culture, photography, videography, graphic design, data science