Max Wolf

I am a high school student and lifelong programmer focused on application and development of cutting-edge deep learning technologies.

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Business Experience

- Intern at NinePointTwo Capital (7/2020 – Present)
  - Generating and researching novel trading factors using deep learning and alternative data to find new ways of increasing return on investment in a futures trading portfolio
- Full stack developer at the Revs Institute (9/2021 – Present)
  - Building deep learning pipeline and data portal to increase data throughput and decrease human involvement in cataloguing tasks for the Revs Institute's digital library.
- Machinist
  - Freelance work done for Bring Abundance and Letterpress Finesse in which I made various large and small parts for a vintage printing press for producing custom stationery using a mill and lathe
- Drone Photographer (05/2021-07/2021)
  - Rocking CCs Ranch
- Ranch Hand (06/2021-07/2021)
  - Rocking CCs Ranch
  - Landscaping, office work
- Dishwasher (04/2021 – 08/2021)
  - Olive Garden
- Self Employed
  - Freelance 3D Printing/Modelling
    - Dumas Products
  - Arduino sales

Education and Certifications

BASIS Oro Valley High School (8/2018 – Present)
- Engineering 102
  - College engineering course which is a prerequisite for many later engineering classes
- Math
  - Capstone Linear Algebra, AP Calculus AB and BC
- Physics
  - Capstone Applied Physics, AP Physics 1, 2, and C
- Humanities
  - AP Literature, AP Language
  - Capstone Fascism and the Radical Right, AP European History, AP US History, AP US Government
- Foreign Language
  - Capstone Sources of Chinese Language and Thought, AP Mandarin

Udacity AI for Trading Nanodegree (12/23/2019 – 8/19/2020)
- Advanced course on applications of AI to quantitative finance. According to my mentor for this class, I was the youngest student to ever complete this course.

Certifications
- FCC General class amateur radio license

Skills

Programming
- **Python, C, C++, C#**

Machining
- **Manual mills and lathes**
- **3 axis CNC mills and routers**
  - **Mach 4 machine control software**

CAD/CAM
- **Fusion 360 (CAD and CAM), AutoCAD, OpenSCAD, Autodesk EAGLE (CAD and CAM)**

Amazon Web Services, Google Cloud
Google Suite
Microsoft Excel

Awards

National Honor Society (NHS)

National Junior Honor Society (NJHS)

Engineering Student of the Year 2019-2020

AP Scholar with Distinction

Test Scores

SAT: 1440

PSAT: 1360

Languages

English

汉语 (Mandarin)

Extracurriculars

NHS Volunteering
- 25 hours teaching 1st through 5th grade robotics class (FIRST Robotics)
- 5+ hours volunteering at local horse ranch

NJHS Volunteering
- 24 hours teaching 1st through 5th grade robotics class (FIRST Robotics)

Engineering Society Vice President

Projects

- Electric bike conversion
- Atmospheric Data Collection Rocket
- Private pilot's license