

Ashley Vaughn

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Education

- Peggy Payne Gifted Academy
McClintock High School
‣ GPA: Unweighted: 4.0, Weighted: 4.85
‣ Standardized testing: ACT: 36, SAT: 1540
‣ Notable Courses: independent research (on machine learning), multivariate calculus, linear algebra, statistics
Fall 2020 – Present
Tempe, Arizona
- MIT BeaverWorks Summer Institute
embedded security and hardware hacking (in C)
‣ Team Obsidian - won the design challenge/CTF: [Project Repo](#)
July 2023 – August 2023
Virtual
- CMU School of Computer Science
2024 – 2028

Experience

- Machine Learning, independent research
‣ Computer vision, NLP, and reinforcement Learning
‣ Model architecture and scaling
‣ Pytorch: Building and training models
2021 – Present
- InSpirit AI 1:1 Mentorship Program
Worked on transformer models for computer vision and reinforcement learning
January 2023 – Present
- Programming
‣ Languages: Rust, Python, C
‣ Game Design: Creating games in Python, Lua, and C# in Unity
‣ Algorithm Design: Algorithms and optimization
‣ Low Level Programming: Studying C and Rust and embedded devices
‣ Security: Encryption, exploits
2016 - Present

Awards

- Arizona State Finals - Science Olympiad
5th place in Environmental Chemistry & Cell Biology
2022 & 2023
ASU - Tempe, Arizona
- National Spanish Exam Gold Medal
2022
- AP Awards: AP Scholar & AP Scholar with Distinction
2022 & 2023
- Academic Awards: Academic Letter and Scroll
2022 & 2023

Other Interests

- Mathematics
‣ Type theory, Lean, category theory, information theory
- Fencing
Phoenix Fencing Academy
May 2020 - October 2022
Tempe, Arizona
- Linguistics & Philosophy
- Volunteering
‣ Tutoring: Tutoring students in math, science, and history
‣ Paz de Cristo Community Outreach Center: Making and serving meals for those in need
‣ Phoenix Herpetological Society: Caring for the reptiles