

Joshua Zhang

Engineer

High school student looking for a Web Development or DevSecOps internship. 6+ Years of programming experience, 4+ years of cybersecurity experience, 1 year of research experience.

EXPERIENCE

Identifying NEOs using Machine Learning June 2021 – May 2022

Online Research

- Used Tensorflow to identify 40+ Near Earth Objects (NEOs) within NASA's WISE database.
- Designed and optimized a neural network that subtracts two images to identify moving objects.
- Learned and used image interpolation to fill in missing pixels in images.
- Won 1st place at Alameda Regional Science Fair

COSMOS Quantum Mechanics July 2022 – August 2022

UC Davis, CA

- Completed a 4 week program involving introductory courses in quantum mechanics and programming in C.
- Worked with a team of five to build a working Scanning Tunneling Microscope to scan the atomic surface of a graphene sample.
- Wrote computer programs to simulate quantum tunneling in a variety of different geometric lattices, including linear, rectangular, and honeycomb (hexagonal) lattices.
- Wrote a computer program to simulate the time evolution of a quantum mechanical system using Spectral Decomposition Theory. It could reproduce the special case of a perfect Quantum State Transfer discovered 10 years ago.

EDUCATION

Monta Vista High School (Student) August 2019 – June 2023

GPA: 3.93, SAT: 1550, ACT: 35

- Relevant Courses: AP Calculus BC, AP Physics C, AP Physics 1, AP Computer Science A

West Valley College August 2022 – December 2022

- Relevant Courses: Linear Algebra, Differential Equations

AWARDS

USAPHO Honorable Mention (Qualifier 2x) 2021 & 2022

- Top 400 on nationwide F=MA exam.

National Cyber Scholar 2022

- Top 1152 Cybersecurity nationwide.

PicoCTF Top 40 (2x) 2021 & 2022

- Fweefwop Team Placement, out of 1000+ teams.

CONTACT

- Cupertino, CA (Open to Remote)
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- github.com/Teddygat0r

SKILLS

Languages:

- HTML
- CSS
- Javascript / NodeJS
- PHP
- MySQL
- Python
- Java
- Bash

Cybersecurity:

- Web Exploits (SQLI, XSS, CSRF ...)
- Cryptography
- Cloud Security

Tools and Frameworks:

- React
- Vue 3
- Nuxt 3
- TailwindCSS
- Bootstrap
- Django
- Python (BS4, Numpy, Matplotlib)

OTHER

- Co-founder of Fweefwop, a four year old cybersecurity club.
- Co-host of FweefwopCTF
- Strong Problem Solver
- Fluent in Chinese
- Filmed and edited a variety of short films