

# ROBERT ZHANG

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## EDUCATION

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### Academies of Loudoun

Leesburg, VA

#### Advanced AET Information Technology Pathway

August 2024-June 2026

- Classes: AP Computer Science A, AET Applied Advanced Computer Science, AP Calculus AB/BC
- Relevant Coursework: Java, Python, C++, Object-Oriented Programming, GUI interfaces, Arrays and Files, Sorting, Recursion
- Clubs: Competitive Programming Club, Computer Science Honor Society

### Independence High School

Ashburn, VA

#### High School Student, Class of 2026

August 2022-June 2026

- Classes: Cybersecurity Operations, Intro to Cybersecurity, Math Analysis, AP Statistics, AP Physics C: Mechanics
- Relevant coursework: Cryptography, Network Security, Cybersecurity
- Clubs: Artificial Intelligence/Machine Learning Club, FBLA, CyberPatriot

## EXPERIENCE

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### MIT Beaver Works Summer Institute

Ashburn, VA

#### Quantum Software Program Attendee

July 2025-August 2025

- Selected to attend the prestigious MIT Beaver Works Summer Institute, where I gained foundational expertise in quantum computing, quantum mechanics, and quantum information theory.
- Developed and simulated real quantum algorithms using Q# and Microsoft Quantum Development Kit in advanced, team-based software projects, applying quantum principles to solve computational challenges.

### NVEM Foundation

Ashburn, VA

#### Chief Operating Officer

June 2024-Present

- Led operations at NVEM Foundation, developing a free online course on AI, programming, and machine learning, reaching 200+ students through 10+ communal workshops.
- Raised \$1.5K+ to support education in African schools, driving impact through tech-focused nonprofit initiatives.

### Future Business Leaders of America

Ashburn, VA

#### Competitor

August 2024-Present

- Placed 10th nationally, 1st in Virginia, and 1st in the Shenandoah Region in FBLA's "Website Coding & Development" event.
- Built and presented fully coded websites from scratch using HTML, CSS, JavaScript, and frameworks like React, following strict competition guidelines.

### George Mason University & Independence High School

Ashburn, VA

#### Researcher

August 2024-June 2024

- Collaborated with George Mason University to develop a machine learning model that evaluates the reliability of Body Mass Index (BMI) as a cardiovascular disease risk factor.
- Used Python, scikit-learn, and SHAP to train and analyze models on large health datasets, refining code to reduce false positives and improve prediction accuracy.

### Agileana

Ashburn, VA

#### Intern

October 2024-Present

- Organized and led an AI-focused hackathon centered on Ethical AI, Educational AI, and Medical AI, driving innovation through collaborative problem-solving.
- Managed event logistics, including participant registration, scheduling, and coordination of workshops and resources for a seamless experience.

## CERTIFICATIONS

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### CompTIA IT Fundamentals+ (ITF+) Certification

May 2024

- Earned the CompTIA IT Fundamentals+ certification, demonstrating my understanding of computing basics, IT infrastructure, software, databases, and security, along with the ability to install software, and handle security risks.