

STEPHEN R. ZHANG

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EDUCATION

Montgomery Blair High School '25

Science, Mathematics, and Computer Science Magnet Program

- **GPA: 4.0 WPGA: 5.0**
- **SAT: 1560** (Aug 2023)
- **Completed AP tests** (all score "5"):
Calculus BC, Physics C Mechanics, CS A, US Government and Politics, Statistics, Chinese
- **Notable Coursework:**
Differential Equations, Multivariable Calculus (**A+ on University of Maryland Math 241 Credit by Exam**),
Linear Algebra, Analysis (Calculus BC), Applied Statistics, Discrete Mathematics, Computer Graphics, Quantum Physics, Physical Chemistry, Analytical Chemistry
Algorithm & Data Structures, Analysis of Algorithms, Magnet Physics Mechanics, Magnet Chemistry, Magnet Biology, Magnet Earth Science, Fundamental Computer Science, Research & Experimentation
- **Math level is 2 grades above peers**

SKILLS & ABILITIES

Programming & Computing:

Java, C++, Python, React, HTML/CSS/JavaScript, Windows, Linux, Microsoft Office (Word, Excel, PowerPoint), General System Administration,

Math Modeling (Matlab, Numpy, Pandas, Jupyter), Server Management (Caddy, Nginx, Apache), Cloud (AWS, GCP, Azure), Docker, Git, Inventor

Member of Blair System Operators (2023 – present)

Languages: English & Chinese (Native), Spanish

ACADEMIC AWARDS & HONORS

USA Computing Olympiad (USACO) Platinum Division (2023, 979 Score)

AIME Qualifier (2021 – 2024)

AMC10 National Honor Roll (2021, 2022)

University of Maryland High School Mathematics Competition, Honorable Mention (2022, 2023)

Lockheed Martin CYBERQUEST DMV 1st Place (2023)

Lockheed Martin CODEQUEST DMV 2nd Place (2024)

Cornell University Big Red Math Competition 3rd Place Team (2023)

UPenn PClassic Advanced Division 1st Place (2023)

High School Mathematical Contest in Modeling Honorable Mention (2023)

Modeling the Future Challenge Semi-Finalist (2024)

University of Maryland Programming Competition 2nd Place (2024)

North American Computational Linguistics Olympiad Open Round Top 150 (2024)

TOSHIBA ExploraVision Honorable Mention (2024)

Science Montgomery 3rd Place Math/Physics (2024)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- **Active DECA (Distributive Education Clubs of America) member**

2nd place of MD state DECA competition and qualified the DECA International Career Development Conference (ICDC) 2023

- **Active FBLA (Future Business Leaders of America) member**

1st place of MD regional FBLA competition (2024)

2nd place of MD state FBLA competition (2024)

- **Music: 7 years well-trained flute player**
MDMEA Maryland All State Senior Band (2023)
MCPS All County Senior Honors Band (2023 & 2024)
Great Composers Competition The Music of

Mediterranean Europe Second Prize (2024)

YMIC Classical Festival 1st Place (Chamber) and Best Performers (2022)

Maryland Classic Youth Orchestras (MCYO) (2019-2020)

Potomac Valley Youth Orchestra (PVYO) (2018-2019, 2022 – present)

- **Clubs/Leadership:**

Captain of Computer Team (Fall 2023 – present)

Montgomery Blair Informatics Tournament (mBIT) organizer committee member: Problem writer, managed website and infrastructure. Competition attracted > 100 students from the DC, MD & VA regions.

Captain of Cybersecurity Club (Fall 2023 – present)

Angstrom CTF Organizer Committee Member: One of the largest high school oriented CTFs with over 1700 competing teams in 2022.

Task Force Leadership of Math Team (Fall 2023 – present)

Montgomery Blair Math Tournament (MBMT) Organizer and Web Master: Managed website and infrastructure/grader. MBMT is a Blair organized math tournament for students in the DMV (DC, MD & VA) area. Over 250 participants in 2022.

- **Sports**

CCACC volleyball club (2021 – present)

Ace/Weestar Volleyball Club (2019 – present)

Fencing at Rockville Fencing Academy (2017 – 2021)

COMMUNITY SERVICE

Student Service Learning Hours: ~335 hours

- **President's Volunteer Service Award (Gold, 2022)**

- **Tutoring (2019-2023)**

Algebra II courses, Lead for Future Academy (L4FA)

Geometry courses; Capital Youth Outreach Club (CYOC); math tutoring services, Chinese American Parents and Students Association (CAPSA)

- **Service contributes to fighting COVID-19 pandemic**

Jun - Aug 2022: teaching English to elementary and middle school students in China during Covid-19 period through L4FA program.

Mar - Jul 2020: teaching online courses via Kids Connect and fundraising (~ \$3,000) to support health care providers fighting for COVID-19 (endorsed by Congressman David Trone for Team Maryland: Community Champion award)