

EDUCATION

2025-2028	THOMAS JEFFERSON HIGH SCHOOL FOR SCIENCE AND TECHNOLOGY (TJHSST) GPA: 4.45 (weighted) PSAT 8/9: 1440/1440 <ul style="list-style-type: none">Relevant Coursework: AP Biology, AP CSA+ (Data Structures & Algorithms), Design & Tech, DNA Science (2026), Neurobiology (2026), Bionanotechnology (2026), Bioinformatics (2026)Awards/Honors: TSA National Qualifier – Forensic Science, LD Debate MetroFinalist (DMV)Involvements: Varsity Debate, Technology Student Association (TSA), Varsity Cross Country	Alexandria, VA
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EXPERIENCE

Summer 2025	GEORGE MASON UNIVERSITY – SCHAR SCHOOL OF POLICY & GOVERNMENT <i>Research Intern, BioScience: AI and Life Science in Disease Program</i> <ul style="list-style-type: none">Selected for a competitive summer program exploring biomedical applications of AI and computational modelingCurrently designing novel antimicrobial peptides using the GRAMPA peptide database and bioinformatics toolsApplying machine learning and statistical methods to predict peptide efficacy and structure–activity relationshipsAiming to co-author a research paper on antimicrobial peptide design and pathogen resistance modeling	Fairfax, VA
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VOLUNTEER

2024-2025	AMERICAN CANCER SOCIETY <i>Volunteer</i> <ul style="list-style-type: none">Led awareness campaigns to educate students on cancer prevention and treatment	Ashburn, VA
2024-2025	VHSL DEBATE <i>Volunteer</i> <ul style="list-style-type: none">10+ hours of volunteering at VHSL debate competition hosted at Rock Ridge High School	Ashburn, VA
2024-2025	KEY CLUB <i>Volunteer</i> <ul style="list-style-type: none">Participated in 25+ hours of community service this school year through Key Club	Ashburn, VA

SKILLS

- Lab:** Micropipetting, gel electrophoresis, bacterial culture, aseptic technique, spectrophotometry, microscopy, lab notebooking
- Programming:** Python (Pandas, NumPy, Scikit-Learn, PyTorch), MATLAB, Java
- Tools:** Excel, GraphPad Prism, Jupyter Notebook, Git/GitHub (version control & collaboration)
- Analysis:** Basic statistical analysis (t-tests, chi-square, ANOVA); medical lit. review
- Music:** Piano (6+ yrs; performed at retirement homes), Guitar (3+ yrs; 2023 D.C. World Culture Festival ensemble)
- Interests:** Neuroscience, medicine, biomedical research, science outreach