

SAMI ELSAYED

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EDUCATION

Adv. High School Diploma, Thomas Jefferson High School for Sci & Tech Aug 2021 - Jun 2025

Address: 6560 Braddock Road, Alexandria, Virginia 22312

- **Relevant Coursework:** AP Computer Science A (Data Structures), Artificial Intelligence 1/2, Computer Vision 1/2, Computer Systems Research, Physics, Design & Tech, AP Calculus

Bachelor's of Science, George Mason University

Aug 2025 - May 2029

Address: 4400 University Drive, Fairfax, Virginia 22030

- **Major:** Cyber Security Engineering
- **Activities:** Debate Team

EXPERIENCE

Systems Administrator, TJHSST Computer Systems Lab

Jun 2022 - Jun 2025

- Led infrastructure maintenance for school's computing environment, managing 40+ HPC nodes and 10 servers supporting AI and computer vision research.
- Architected and implemented system upgrades across 60+ Linux workstations, improving performance and reliability
- Maintained critical services including email, networking, and web infrastructure
- Created comprehensive documentation for lab infrastructure, hardware inventory, and operational procedures
- Coordinated with FCPS IT, Office of Cybersecurity (OCS), and school administration to align technical operations with institutional requirements
- Promoted to **Lead Sysadmin** in May 2024.

PROJECTS

Optimizing AI Workloads in Linux-based Heterogeneous Systems

Aug 2024 - Jun 2025

Thomas Jefferson High School for Sci & Tech

- Developed optimization framework for AI workload distribution across heterogeneous computing environments, with end goal of creating a all-purpose AI processor.
- Conducted benchmark testing to measure performance improvements across different processor configurations.
- Created technical guidelines for system optimization.

Codects

Aug 2024 - Present

- Posts on my research website where I learn emerging technologies (i.e vector space indexing, UNIX shell from scratch in C, security optimizations) through intriguing experiments and lessons.

SKILLS

Programming Languages: Python, Java, R, C++, HTML/CSS, JavaScript/Typescript.

Operating Systems: Linux (Ubuntu/Debian, Fedora/Redhat), Windows.

Tools & Software: ArcGIS, web development frameworks (Django, React), MATLAB, VSCode, GitHub, Docker.

Additional Skills: Technical documentation, AI/ML programming, communication & collaboration, technical leadership, system administration, infrastructure & network administration, bash scripting.