Ayoub Mohamed

Portfolio • GitHub • LinkedIn

Email: ayoubsmohamed07@gmail.com
Phone: 703-231-7893
Location: Lorton, VA

SUMMARY

Motivated and experienced high school student with a 3.99 GPA and a wide range of experience in programing and IT. Skilled in Python, Java, JavaScript, and C++, along with a strong foundation in networking, cybersecurity, and open sourced projects. I am eager to contribute to this opportunity by applying my technical, problem solving, and strong communication skills, in a real world setting.

EDUCATION

CG Woodson High School — Fairfax, VA
Expected Graduation: 2025 • GPA: 3.99

EXPERIENCE

General Support Assistant, Fairfax Park Recreation — Chantilly, VA
April 2024 – May 2024
- Directed guests to events and ensured children arrived at correct locations.
- Managed sign-in processes and communicated effectively with staff and visitors.

Peer Programming Tutor, CSHS — Fairfax, VA
September 2022 – Present
- Tutored students in AP Computer Science A labs and exam preparation sessions.
- Helped peers understand Java programming fundamentals and debugging techniques.

PROJECTS

WINSPAR — Windows TCP Optimizer • GitHub
- Co-led two-person team to build CLI for optimizing Windows TCP stack; improved throughput by 30% in test scenarios.

ASIO Client-Server Framework • GitHub
- Engineered async C++ networking core using Boost.Asio; tested successfully under multiple concurrent connections with low latency.

Desktop Tinkerer • GitHub
- Created a Flask web interface that networked with a C++ desktop backend to let users remotely change my home wallpaper.

Game Development (Solo Project)
April 2020 – December 2022
- Solo-developed a C# Unity game; grew Twitter following to 2,000+ and earned 1,000+ downloads.

CERTIFICATIONS

Google Cybersecurity: Foundations — 2023
Google Cybersecurity: Manage Security — 2023
LinkedIn Learning: Data Analytics — 2022
CS Achievement, Woodson CSHS — May 2023

SKILLS & TOOLS

Programming: Python, C++, Java, JavaScript, HTML, CSS

Frameworks: Node.js, Flask

Environments: Git, VS Code, Windows, Linux

Libraries: Boost.Asio, pandas, matplotlib, scikit-learn

Leadership: Co-led open-source repo; peer tutor for CS course; team conflict resolution experience

Problem Solving: Diagnosed low-throughput Windows configs; optimized network code in multi-client setups