ISAIAH GHANSAM

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EDUCATION

University Of Maryland Baltimore County   **Aug 2022 – Expected May 2026**
Bachelor of Science in Computer Science   *Baltimore, MD*

RELEVANT COURSEWORK

- Data Structures
- Discrete Mathematics
- Intermediate Programming
- OOP
- Linear Algebra

EXPERIENCE

UMBC Observatory (Engineering and Operations Intern)   **September 2024 – Present**
                                                                                   Baltimore, MD

- Operated A DFM telescope through Data and Control computers.
- Utilized Stellarium Software to explore and analyze celestial objects, enhancing understanding of astronomical concepts and visualizing the night sky.
- Supported troubleshooting of equipment connectivity issues to optimize operational efficiency.
- Collaborated with team members in staff meetings to plan and execute projects, providing support for both operational tasks and software development while maintaining effective communication and coordination for successful telescope operations.

PROJECTS

Git Version Control System Clone | *Python— Linux, Git Internals*   **January 2025**
- Implemented a simplified Git clone to understand and replicate Git's internal version control system.
- Supported blobs, trees, and commits using zlib compression and SHA-1 hashing.
- Built command-line tools for git init, hash-object, cat-file, write-tree, and commit-tree, mimicking Git's behavior.
- Improved understanding of distributed version control, cryptographic hashing, and efficient file storage mechanisms.

Airline Manager Console Simulation | *C++ — Visual Studio Code, PuTTY*   **March 2024**
- Developed an airline management console application for students to create and calculate distances for airline routes.
- Applied Object-Oriented Programming principles such as encapsulation to manage airline and route data through class structures.
- Implemented dynamic arrays and linked lists for data storage and route manipulation.
- Added route editing features (reverse/insert/delete) to support user designed itineraries.

Threat Hunting Capstone (CodePath) | *Splunk, Wireshark*   **July 2025**
- Built SPL queries and dashboards in Splunk and analyzed packet captures in Wireshark to surface DDoS patterns and suspicious hosts.
- Correlated indicators of compromise with proxy and DNS logs to identify potentially compromised assets.
- Produced an incident-response playbook–driven report and presentation summarizing findings and containment steps.

TECHNICAL SKILLS

Languages: Python, C++, C, HTML/CSS
Developer Tools: Visual Studio Code, PuTTY
Technologies/ Platforms:Linux, Splunk, Wireshark, Shodan/OSINT

ACHIEVEMENTS & CERTIFICATIONS

Intro to Cybersecurity   **Spring 2025**
Certificate (Honors)— Wireshark packet analysis; Linux fundamentals/hardening; web/app security; threat modeling .   *CodePath*

Intermediate Cybersecurity   **Summer 2025**
Certificate (Honors)— Splunk queries & dashboards; IOC correlation & threat hunting; IR playbooks; log analysis.   *CodePath*

Dean's List   **Fall 2024**
                                                                    University of Maryland, Baltimore County