

Sophia Green

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EDUCATION

Virginia Commonwealth University

Aug. 2019 – May 2023

Bachelor of Science in Information Systems

Richmond, VA

- **Relevant Coursework:** Cloud Computing, Cybersecurity, Systems Analysis, Software Engineering
- **GPA:** 3.89/4.00
- **Activities:** VCU Cybersecurity Club, Women in Computing, HackVCU Organizer

EXPERIENCE

Cybersecurity Intern

Jun. 2022 – Aug. 2022

Capital One

Richmond, VA

- Monitored network activity to identify potential security threats, reducing response time by **30%**.
- Assisted in the implementation of multi-factor authentication systems, enhancing account security for **10,000+ users**.
- Conducted vulnerability assessments and provided detailed reports on findings and remediation strategies.
- Collaborated with a team of analysts to design and test incident response protocols, improving effectiveness by **25%**.

Undergraduate Teaching Assistant

Sep. 2021 – May 2022

VCU Department of Information Systems

Richmond, VA

- Supported the Cloud Computing course, guiding **50+ students** through AWS-based labs and projects.
- Graded assignments and provided constructive feedback to help students understand complex concepts.
- Held weekly office hours to assist with coursework, boosting student performance by **15%**.

PROJECTS

SecureVote Blockchain System

Python, Hyperledger Fabric

Mar. 2023 – Apr. 2023

- Developed a blockchain-based voting system to ensure secure and tamper-proof election processes.
- Implemented smart contracts to validate and record votes, ensuring **100% integrity**.
- Deployed the system using Hyperledger Fabric, achieving consensus across **5 nodes** in under 2 seconds.
- Presented the project at the VCU Tech Showcase, receiving recognition for innovation in security.

Cloud Storage Optimizer

Python, AWS S3, Flask

Jan. 2023 – Feb. 2023

- Designed a web application to analyze and optimize cloud storage usage on AWS S3.
- Implemented Python scripts to automate file categorization and removal of redundant data, reducing storage costs by **20%**.
- Developed a Flask-based user interface for real-time analytics and recommendations.
- Deployed the application on AWS EC2, ensuring scalability and reliability.

IoT Home Security System

C++, Arduino, MQTT

Sep. 2022 – Nov. 2022

- Built a smart home security system integrating motion sensors and cameras with IoT connectivity.
- Programmed Arduino devices to send real-time alerts via MQTT to a mobile app.
- Designed a user-friendly dashboard to monitor security events and control devices remotely.
- Tested the system with **10+ households**, receiving positive feedback on functionality and ease of use.

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript

Frameworks: Flask, Hyperledger Fabric

Tools: AWS, Git, Docker, MQTT

Technologies: Cybersecurity, Cloud Computing, Blockchain, IoT