

Thomas Glass

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Highly motivated Cyber Security Engineering graduate with a strong drive to merge my passion for cyber security with my detail-oriented, methodical, and analytical approach. I am dedicated to utilizing problem solving techniques and teamwork to develop innovative solutions and effectively address unforeseen obstacles. Seeking a challenging role at an innovative organization where I can contribute my expertise in areas such as network security, incident response, and risk management.

EDUCATION

Iowa State University - College of Engineering - Ames, IA May 2023
Bachelor of Science - Cyber Security Engineering GPA 3.40

- Academic Dean's list
- Relevant Coursework: Network Administration, Cryptology, Encryption, Hashing, Threat Mitigation, Firewall Configuration, Network Analysis, SIEM, Algorithms, Front-End Software Development, Software Development Life Cycle

ACADEMIC EXPERIENCE

Collaborative Surveillance of a Large Geographic Area by Fleet of Drones

Senior Design I & II

- Contributed to the design and development of a web application setup to support the simulation of drone fleets
- Utilized React and BlueprintJS to implement components of the website alongside GitHub to manage version control
- Supporting Documents: sdmay23-50.sd.ece.iastate.edu

Teaching Assistant

Operating Systems: Principles and Practice

- Assisted in the design, preparation and delivery of lectures and lab activities for a 300-level course in operating systems
- Mentored and provided individualized support to 100 students, helping them grasp challenging concepts and improve their grades

Network Design, Pen Testing & Remediation

Cybersecurity Tools

- Conducted vulnerability scanning on multiple university networks to identify potential threats and exploits in systems, leading to the discovery and remediation of successful attacks. Evaluated and documented defenses to better protect the university networks
- Detected and prevented security threats, including covert communication, malicious code, and other security threats resulting in a 40% reduced risk of covert communication and a 25% reduced risk of malicious code attacks through the use of security patches
- Practiced planning of secure system design to ensure data security and proper access control

Multipath TCP Protocol

Computer Networking and Data Communications

- Implemented a simplified version of the Multipath TCP protocol in C utilizing sockets and pipes to send data across multiple connections
- Established a parent control socket to verify data packets sent across the TCP network protocol are all received and in the correct order

ADDITIONAL SKILLS

Programming Languages: Java, C, Python, JS, React **Tools/Technologies:** Wireshark, Ghidra, Pfsense, Nmap, Splunk, Metasploit
Frameworks and Libraries: BlueprintJS, CSS, HTML **Software Development:** Object-Oriented Programming, Front-End Development

WORK EXPERIENCE

DoorDash - Delivery Driver 2020 - 2022

- Demonstrated professional conduct with clients to deliver outstanding customer service resulting in consistently high customer satisfaction scores while handling as many as 35 assignments per day

Chicago Union Ultimate Frisbee - Youth Coach 2021

- Independently ran several Chicago Union, a professional sports team, summer camps for middle and high school-aged kids in the Chicagoland area
- Coached 30 youth players through the process of learning ultimate frisbee while fostering continuous growth

Party City- Sales Associate 2017 - 2019

- Developed strong customer management skills using knowledge of products and target customers
- Trained and developed new sales team associates in product knowledge, selling techniques, and company procedures