

Aman Thanvi

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EDUCATION

Bachelor of Science in Computer Science

Minor in Cybersecurity; Science, Technology, Ethics, and Policy · University of Maryland, College Park · College Park, MD · 2024
· Awarded 3-year CyberCorps Scholarship for Service (2 year undergrad + 1 year accelerated Masters)

EXPERIENCE

Senior Cyber Security Intern

Kurtek

September 2023 - Present, College Park, MD

· In progress

Cybersecurity Intern

CISA

May 2023 - August 2023, Arlington, VA

- Coordinated with the Infrastructure team for essential service updates, patching, and emergency response, ensuring compliance with security best practices and policies.
- Researched and integrated diverse and novel technologies to make existing infrastructure more modern, agile, and functional.
- while maintaining reliability.
- Gained proficiency in Red Hat services like OpenShift and utilized platforms like Teleport and ThreatConnect to ensure the development of new and existing projects did not affect critical infrastructure integrity.

Senior Cybersecurity Intern

NASA/Kurtek

February 2023 - May 2023, Greenbelt, MD

- Spearheaded the development and security compliance of NASA's SCaN Cloud infrastructure, ensuring adherence to federal policies
- Prepared SCaN Cloud for independent assessments and improved user interface communication by creating security artifacts, user manuals, and capability brochures.
- Contributed to SCaN Cloud user manual and capability brochure, fostering efficient communication between teams and users.

Information Security Intern

Nasdaq

June 2022 - December 2022, Rockville, MD

- Performed application security assessments on Nasdaq internal applications utilizing DAST and SAST tools, like Burp Suite and Acunetix, and best practices.
- Performed Red Team exercises following best practices and utilizing tools like Splunk and ZScaler.

Cryptography Intern

NASA

June 2021 - August 2021, Greenbelt, MD

- Delivered a software-based solution utilizing the cutting-edge CCSDS Space Data Link Security Protocol – Extended Procedures (SDLS-EP) to ensure secure communication between the spacecraft's core Flight System (cFS) and ground station, leveraging the NASA Operational Simulator for Small Satellites (NOS3) virtual environment.
- Acquired knowledge of mission architecture and cryptography standards prior to integrating a proprietary cryptography library.
- Employed Git for managing the project's software development lifecycle and version control.

Security Intern

NASA

June 2020 - August 2020, Greenbelt, MD

- Developed advanced security features for NCCS, encompassing security compliance and beyond.
- Acquired experience in current security compliance technologies, devised ways to collect compliance metrics, evaluated alternative solutions, and produced data to assess the efficacy and efficiency of the choices considered.
- Performed assessments and tasks related to NCCS's diverse infrastructures, operational areas, and service layers.

Networking/System Administration Intern at NASA/EFSI

NASA

June 2019 - August 2019, Greenbelt, MD

- Gained hands-on experience with various advanced computer hardware and operating systems such as Linux (i.e., Kali, CentOS, and Ubuntu) and Windows. Also, acquired knowledge and experience in managing and configuring advanced network devices such as federally compliant switches and firewalls.
 - Established and deployed a secure and service-rich private network infrastructure capable of sharing inter/intra-intern group knowledge utilizing various technologies and resources such as virtualization, containerization, and access control and management.
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PROJECTS

Geneva - Protocol Obfuscation

Breakerspace · <https://geneva.cs.umd.edu/> · August 2023 - Present

- Conducting research on utilizing Text-to-Speech (TTS) quirks, exploring practical applications in circumventing censorship detection mechanisms.
- Establishing a reliable baseline for detectability, focusing on optimizing the balance between detectability and data throughput.

Cyber Threat Intelligence Research

National Security Agency · August 2023 - Present

- Orchestrating comprehensive threat intelligence research in collaboration with the NSA, identifying potential Advanced Persistent Threats (APTs) and strategizing robust defense mechanisms.
- delivered detailed threat profiles and insightful briefings, significantly enhancing organizational preparedness and response strategies against sophisticated cyber threats.

INVOLVEMENT

Secretary

University of Maryland, College Park · Cybersecurity Club · June 2023 - Present

Member

University of Maryland, College Park · Alpha Lambda Delta Honor Society · November 2021 - Present

Events Co-Chair

University of Maryland, College Park · Hindu Student Council · January 2023 - August 2023

Member

University of Maryland, College Park · Cybersecurity Club · August 2020 - June 2023

Tech Fellow

CodePath · June 2021 - December 2021

- Led and taught the cybersecurity course for the Fall 2021 semester at the University of Maryland, College Park.
 - Taught college students the mindset of a security professional and the fundamentals of cybersecurity, common application vulnerabilities, and hands-on practice focused on developing defensive applications.
 - Conducted weekly class sessions and office hours, organizing, distributing, and presenting learning material, ensuring student success in and out of the classroom, and maintaining weekly communication with CodePath admin and supervisors on class progress, blockers, and student engagement.
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