Aman Thanvi

Computer Science Undergraduate

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SKILLS

General	Application Security Assessment & Testing, Vulnerability Assessment, Offensive Security, Cryptography, Cyber forensics, Security Compliance & Risk Assessment & Remediation, Web Exploitation, Machine Learning, Object-Oriented Programming
Tools & Platforms	Splunk, ZScaler, Acunetix, Burp Suite, ZAP, AWS, Azure, GCP, Git, Docker, Linux
Languages	Java, C/C++, Python, R, HTML & CSS, JavaScript, MATLAB
Communication	English (native), Spanish (fluent), Hindi (elementary)

EDUCATION

University of Maryland, College Park, *Bachelor of Science in Computer Science*   Aug 2020 - May 2024

- Cumulative GPA: 3.4 / 4.0
- Minors: Advanced Cybersecurity Experience for Students (ACES) Honors; Science, Technology, Ethics and Policy (STEP)
- Programs: First-Year Innovation & Research Experience (FIRE) - Artificial Intelligence & Deep Learning: Capital One Machine Learning (COML); Global Fellows in Washington, D.C. - International Security & Intelligence Track
- Activities & Leadership: Alpha Lambda Delta Honor Society; Tech Fellow - Cybersecurity w/ CodePath; Senator to the Letter & Sciences College; Cybersecurity Club

EXPERIENCE

Nasdaq   **JUN 2022 — PRESENT**
Information Security Intern   *Rockville, MD*
- Perform application security assessments on Nasdaq internal applications utilizing DAST and SAST tools, like Burp Suite and Acunetix, and best practices.
- Perform Red Team exercises following best practices and utilizing tools like Splunk and ZScaler.

University of Maryland, College Park / Malware Detection & Classification   **JUN 2021 — DEC 2021**
FIRE Capital One Machine Learning Student Researcher   Research Advisor: Dr. Raymond Tu   *College Park, MD*
- Employed Scrum methodology to build out the training scripts for machine learning model, utilizing frameworks like TensorFlow and Lightgbm, that could detect and classify large malware datasets.
- Collaborated with team and product owner to meet deliverable and product deadlines and requirements.

NASA   **JUN 2021 — AUG 2021**
Cryptography Intern   *Greenbelt, MD*
- Provided a software-only solution using the latest CCSDS Space Data Link Security Protocol – Extended Procedures (SDLS-EP) to secure communications between spacecraft's core Flight System (cFS) and ground station leveraging the NASA Operational Simulator for Small Satellites (NOS3) virtual environment.
- The project's software development cycle and version control were managed using Git.
- Learned about mission architecture and the cryptography standards before integrating a proprietary cryptography library.

NASA Center for Climate Simulation (NCCS)   **JUN 2020 — AUG 2020**
Security Intern   *Greenbelt, MD*
- Designed and created enhanced security capabilities for NCCS, including but not limited to security compliance.
- Learned the capabilities of existing security compliance tools, designed approaches to obtain compliance metrics, tested alternate solutions, and presented results to assess the relative merit and efficiency of the tested solutions.
- Conducted evaluations and tasks concerning NCCS's various infrastructures, operational zones, and service stacks.

NASA/Embedded Flight Systems Inc. (EFSI)   **JUN 2019 — AUG 2019**
Networking/System Administration Intern   *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 the operation and configuration of advanced network devices such as federally compliant switches and firewalls.
- Established and deployed a secure and service-rich private network infrastructure capable of inter/intra-intern group knowledge sharing utilizing a wide variety of technologies and resources such as virtualization, containerization, and access control and management.

AWARDS & CERTIFICATIONS

Microsoft Certified: Azure Fundamentals	JUL 2022
Microsoft Certified: Security, Compliance, and Identity Fundamentals	JUL 2022
Scholarship for Service Recipient - 3-Year Track	MAY 2022
NAFTrack Certification	JUN 2020
Maryland Seal of Biliteracy — Spanish	JUL 2019
CompTIA A+	DEC 2018