

## EDUCATION

### University of Maryland, College Park

*Masters of Engineering in Cybersecurity*

College Park, MD

*Expected May 2025*

Relevant Coursework: Hacking of C and Unix binaries, Challenges in pwn.college (pwntools and pwndbg), AWS for Cloud security, Penetration Testing, Secure Software Engineering (a MITRE course), Secure Code Review, Digital forensics and Incident Response and Cryptography.

## EXPERIENCE

### Capgemini

*Cybersecurity Intern*

Mumbai, India

*March 2023 – Jun 2023*

- Collaborated with cross-functional teams to integrate Qualys CMDB features, optimizing asset tracking and improving incident response times by 25%, thus bolstering overall client security posture.
- Developed and delivered a comprehensive refresher session on cybersecurity fundamentals and networking principles to a group of 25 team members, resulting in a measurable increase in knowledge retention scores by 40%.
- Assisted in conducting quarterly compliance audits that identified and mitigated risks associated with over \$2M in critical infrastructure, resulting in improved adherence to regulatory standards.

### Sansbrix

*Cybersecurity Tutor*

Remote

*Jan 2022 – March 2022*

- Conducted interactive cybersecurity training sessions for aspiring professionals, covering OWASP Top 10 and hands-on demos.
- Designed and curated a 20-video cybersecurity learning playlist, simplifying complex concepts for beginners.
- Mentored students in fundamental cybersecurity principles, fostering hands-on engagement through practical exercises.

### VIEH Group

*Security Intern*

Mumbai, India

*Sept 2021 – Dec 2021*

- Directed a group project that culminated in the creation of the Crime Investigation Framework, which streamlined incident response processes by 30%, significantly reducing resolution times for security incidents across the organization.
- Conducted Capture The Flag (CTF) challenges, strengthening vulnerability exploitation and ethical hacking skills.
- Spearheaded a cybersecurity awareness program, educating participants on threat prevention and digital hygiene.

## PROJECTS

### Car Marketplace: Secure Web Application Development

[Github](#)

Developed a secure web application for a car marketplace using C# and ASP.NET Core, implementing secure coding practices to prevent common web vulnerabilities in the OWASP Top 10.

### Fully Homomorphic Encryption (FHE) Implementation

[Github](#)

Implemented a Fully Homomorphic Encryption (FHE) scheme as part of a cryptography course, enabling secure computation on encrypted data without decryption.

### Cloud Security: AWS Vulnerability Remediation

[Github](#)

Secured a deliberately vulnerable AWS cloud environment by identifying misconfigurations, applying security best practices, and mitigating risks using AWS-native security tools such as AWS CloudTrail, GuardDuty, Inspector, and Config to enhance threat detection, compliance monitoring, and incident response.

## OCCUPATIONAL HIGHLIGHTS

**Speaker at OWASP Mumbai:** Presented a technical talk on malware analysis covering Windows internals, PE format, static/dynamic analysis, encryption techniques, and real-world CTF malware case studies. Delivered a live demonstration of malware analysis using industry tools.

**Member, UMD Cybersecurity Club** Actively participate in CTF challenges, enhancing practical cybersecurity skills. Contributed to the design and development of CTF challenges to educate and engage the cybersecurity community.

**Volunteering Experience:** Cloud Village - Building CTF's for RSA 2025 and BSidesSF 2025

## CERTIFICATIONS

AI for Cybersecurity - John Hopkins University

*(in progress)*

AWS Certified Security - Specialty

*(in progress)*

Splunk Core Certified User

*September 2024*

Certified Ethical Hacker V12 (CEH)

*October 2023*

## SKILLS

**Expertise:** Blue Team, Malware Analysis, Packet-Level Analysis, System-Level Forensic Analysis, Networking Protocols, Traffic Analysis, Digital Forensics, Incident Response, Network Traffic, DNS, Threat Analysis, AWS.

**Languages/Scripting:** C, C++, C#, Python, Bash, SQL, Powershell.

**Security Tools/VMs:** Burp Suite, Splunk, Ghidra, IDA, Pwntools, Nessus, Metasploit, Qualys, Wireshark.

**Soft Skills:** Communication Skills, Creativity, Reasonable, Time Management, Awareness, Detail Oriented, Resilience.