

# Om Venugopal

College Park, Md | LinkedIn: [OmLakshmiShanthi](#) | Mobile: 2407337512 | Email: [omlsvenugopal@gmail.com](mailto:omlsvenugopal@gmail.com) | Site: [omvg](#)

## EDUCATION

### **University Of Maryland**

*M. Eng Cybersecurity*

- Teaching Assistant: Network Security
- Grader: Network & Protocols
- Relevant Coursework: Network Security, Network Protocols (TCP/IP), Cloud Security, Security Tools for Information Security, Penetration Testing, Secure Operating System, Digital Forensics, and Incidence Response.

College Park, MD

May 2023

Jan 2023 - May 2023

August 2022- Dec 2022

### **PSG College of Arts & Science**

*B.Sc. Computer Science*

- Relevant Coursework: Cryptography, Information Security, Database Systems, Computer Networks

Coimbatore, India

March 2020

## CERTIFICATIONS

CompTIA Security+

(expected June 2023)

## SKILLS

**Programming & Scripting Languages:** Bash, Python, C++, C#, PHP, JavaScript, MySQL, PowerShell

**Operating Systems:** Windows, Kali Linux, Parrot OS, Ubuntu, Mac OS

**Tools & Technologies:** Wireshark, SIEM, Orca Security, CrowdStrike, Autopsy, MITRE ATT&CK matrix, Git, MS Office, Nmap, Metasploit, Burp Suite, theHarvester, Antigena (Dark Trace), AWS, Nessus, TCP/IP stack, DHCP, DNS, VLANs, Routers, Firewalls, PCIDSS, Go Phish, SonarQube, OpenSSL, VMware, HyperV, GCP, Kubernetes

## WORK EXPERIENCE

### **The New York Public Library**

*Cybersecurity Intern*

Manhattan, NY

June 2022 – August 2022

- Performed intricate network analysis, scanning 40+ endpoints; identified & mitigated dormant vulnerabilities saving up to 40-man hours of work per week.
- Conducted penetration & forensic investigations to validate 40+ servers with proprietary software and meet compliance objectives, reducing security threats by 12%.
- Assessed and monitored logs and alerts from diverse technologies, including SIEM, to proactively identify and mitigate potential security incidents.
- Drafted and implemented policies aligned with industry and regulatory compliance standards, including PCI DSS and HIPAA, to enhance the library's overall security posture.

## PROJECTS

### **Home Lab | Kali Linux, Parrot OS, VMware**

Present

- Set up and configured a robust home lab environment using Kali Linux, Parrot OS, and VMware, SIEM, IDS, IPS for security testing, network analysis, and web application penetration testing.
- Regularly conducted threat hunting activities, utilizing threat intelligence platforms (TIP) to stay informed of emerging cyber threats and employed incident response tools to effectively manage and contain security incidents.
- Actively exploited vulnerabilities using tools such as Metasploit, Nessus, and Nmap, gaining valuable hands-on experience in identifying system weaknesses and recommending remediation strategies.

### **Vulnerability Management for Windows 10 Infrastructure | Nessus, Qualys and VMware**

Present

- Implemented and conducted a comprehensive vulnerability management project, installing and configuring Nessus and Qualys vulnerability scanning tools and processes to identify, analyze, and remediate vulnerabilities in the Windows 10 environment.
- Established and implemented a robust Vulnerability Management Function on sandbox networks, incorporating the key steps of Discover, Prioritize, Assess, Report, Remediate, and Verify.
- Developed and implemented an automated remediation process to proactively address vulnerabilities arising from Windows updates and third-party software.

### **Forensic Investigation | Parrot OS, Wireshark, Autopsy, SIFT**

December 2022

- Led a project utilizing Parrot OS, Wireshark, and Autopsy to conduct in-depth network traffic analysis and digital forensic investigations.
- Identified and extracted key evidence from various digital artifacts, including system logs, file system structures, application data while analyzing malware traffic and identifying indicators of compromise (IOCs).
- Formulated and executed effective investigation plans with digital forensics best practices, guaranteeing integrity of evidence, including chain of custody, preservation of evidence, and documentation of findings.

## EXTRACURRICULARS

- Active member of WiCys, Graduate Women in Engineering (UMD), Cybersecurity Club (UMD)