

# Om Venugopal

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## EDUCATION

### University Of Maryland

*M. Eng. Cybersecurity (GPA: 4.0)*

- Relevant Coursework: Network Security, Security Tools for Information Security, Penetration Testing, Info Sec Tools, Secure Operating System

College Park, MD

*Expected: May 2023*

### PSG College of Arts & Science

*B.Sc. Computer Science (GPA: 8.2)*

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

Coimbatore, IN

*March 2020*

## SKILLS & INTERESTS

**Programming Languages:** C, C++, JavaScript, HTML/CSS, Python, PHP, Java, SQL

**Frameworks & Software:** Wireshark, Bootstrap, UNITY, React, .NET, Salesforce

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

**Tools & Technologies:** Git, AWS (S3), MS Office, Nmap, Metasploit, Burp Suite, theHarvester

**Certifications:** Security+ (expected 2022)

## WORK EXPERIENCE

### Pricewaterhouse Coopers SDC

*Quality Management Specialist*

- Conceptualized test strategies, test plans, and execution based on the project's specifications in both manual and automation testing (Salesforce).
- Defect reporting, tracking, verifying retest results, and helping in test-driven development to find defects at early stages.
- Assumed a proactive approach to remain up to date with evolving technologies that impact current services.

Bengaluru, IN

*May 2021 – July 2021*

### Codingmart Technologies

*Frontend Development Intern*

- Utilized existing codebase to redesign user interface to provide faster loading times and a futuristic look on an eCommerce project.
- Worked to enhance and maintain the codebase (HTML, CSS, JS) used in pre-show templates, which resulted in reducing production time by 50%.
- Designed and implemented new webpage templates on the front-end development team.

Coimbatore, IN

*July 2020 – Nov 2020*

## PROJECTS

### Advanced Exploitation Techniques for x86 Architecture | GDB, Assembly

December 2021

- Problem solved and reverse engineered to find exploits for 10 binaries with ASLR on.
- Exploited the vulnerabilities in ASLR using Heap Buffer Overflows and Return Oriented Programming.
- Deduced the NOP Slide to overwrite the return address to access data.

### Penetration Test - Masked DJ | Metasploit, NMap, JohnTheRipper

December 2021

- Conducted a comprehensive security assessment for the IT Environment of a hypothetical Masked DJ
- Managed and worked with a team of 3 to perform Penetration Test and deliver a report to the Masked DJ to secure their system from any existing vulnerabilities.
- Breached and retrieved confidential information from the AWS account.
- Used NMap for reconnaissance, MS17-010 Eternal blue in Metasploit and JohnTheRipper for privilege escalation and Metasploit for Living-Off-the-Land.

## EXTRA CURRICULARS

- Active Member of WiCys, Graduate Women In Engineering (UMD), Game Development Club (UMD), Cybersecurity Club (UMD)