Prachi Kashyap Oza

College Park, MD, 20742 || (240)-384-8773 || poza1@umd.edu || https://www.linkedin.com/prachi-oza/

EDUCATION

University of Maryland *College Park, Maryland*
Master of Engineering, Cybersecurity Expected **May, 2023**
- GPA: 3.7/4.0
- Coursework: Hacking of C programs and Unix binaries; Penetration testing; Cloud Security; Networks and Protocols; Network Security; Secure Coding for Software Engineering; Digital Forensics and Incidence Response.

Nirma University, Institute of Technology *Gujarat, India*
Bachelor of Technology, Computer Engineering **June, 2020**
- GPA: 7.3/10.0 **First Class**

TECHNICAL EXPERIENCE

Bonum Technologies LLC *College Park, Maryland*
Network Specialist **July, 2022 – August, 2022**
- Day-to-day monitoring of the company's network server and infrastructure- including the firewall and network configurations.
- Troubleshooted issues as required and observed performance data in order to research and create reports.
- Regular maintenance of the networks and update firewall as required.

Feynman Technologies Pvt. Ltd. *Ahmedabad, India*
Apprentice Software Engineer **June, 2020 – May, 2021**
- Developed and modified various key modules of the company's user application, Tilt, using concepts such as token-based authentication.
- Developed the listings page, bookings module as well as the user sign in/sign up page.
- Aided in creating a scalable web application and backend infrastructure to create a suitable and optimal database.

Proclink Consulting Services LLP *Ahmedabad, India*
Cybersecurity Intern **Jan, 2020 – June, 2020**
- Designed a vulnerability scanner for industrial control systems using tools from Kali Linux and Python language.
- Added a functionality that exploits the vulnerabilities found to perform penetration testing on a small scale, to depict how the systems would be affected by them
- Conducted study on control systems such as ICS, SCADA, and DCS.

PROJECTS

Secure Code Review **Aug, 2022 – Dec, 2022**
University of Maryland
- Performed a secure code review of a software and analyzed it to find weaknesses associated with any CWEs. Made use of tools such as SonarQube, Snyk and Roslyn analyzer to detect the issues.
- Also performed a secure code review on a consumer-ready software application to detect any vulnerabilities present; was successfully able to make appropriate recommendations to improve the security for the same.

Penetration Testing
University of Maryland **Aug, 2021 – Dec, 2021**
- Made use of various penetration testing tools and frameworks such as Nmap, Metasploit Framework, Wireshark and Hashcat in order to gain access to an admin account.
- Additionally, used the Remote Desktop Protocol to log into the admin account from the host machine and using some commands pertaining to AWS S3 bucket, were able to obtain all the flags.

Binary Exploitation Techniques for x86 Architecture
University of Maryland **Aug, 2021 – Dec, 2021**
- Reverse engineered to find exploits for given binaries. Made use of buffer overflow, heap overflow, and shellcode injection to exploit the vulnerabilities.
- Demonstrated various attacks such as ret2esp, ret2ret, ret2pop, ret2got and ret2bss by discerning the NOP slide and creating the shellcode to overwrite the return address.

SKILLS AND CERTIFICATIONS
- CompTIA Security+ - Expected October 2022
- CompTIA Security+ Certification Training *Udemy*
- Programming languages: - C, C#, Java, Python, HTML, CSS, JavaScript, Shell Scripting.
- Frameworks: - Bootstrap, Wireshark, .NET, AWS IAM.
- Tools & Software - Nmap, Git, AWS, Metasploit, Burp Suite, Nessus, Splunk, GDB, SonarQube, Snyk.

EXTRACURRICULARS
- Member of WiCYS and Graduate Women in Engineering at UMD.