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 Visa status: Stamp 1G

PROFILE SUMMARY

An aspiring Cyber Security Engineer who is highly self-motivated and versatile, seeking a challenging career with a professional organization that will call for my Cyber skills to empower my position as a cyber security specialist and the organization's growth towards Global excellence. I ultimately aim to utilize the skills which I have acquired by training to the fullest potential while demonstrating my ability and eagerness on taking responsibilities on developing the firm.

TECHNICAL SKILLS

- Experienced in network penetration and analysis tools such as Metasploit, Hashcat, John the ripper, Mimikatz(KIWI) and Nmap, Wireshark and BurpSuite for conducting vulnerability assessment.
- Hands-on experience of carrying out security testing of web applications to find and exploit security vulnerabilities (Nikto)
- Experience in using AWS cloud-based security tools such as AWS IAM using cognito, AWS WAF, AWS Inspector, AWS GuardDuty and AWS shield
- Proficient in Kali Linux ,Windows 7/8/10
- Experienced in using Microsoft Office 365
- Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST)
- Experience in log analysis, event analysis for troubleshooting (Splunk)
- Python, Java, C, C++, HTML5 ,SQL, PHP
- Development methodology deployed is Agile
- Solid fundamental knowledge of DATA protection, GDPR and PCI compliance

LICENSES AND CERTIFICATIONS

- Certified Ethical Hacker (CEH) from EC-Council.
- Certified Network Security Specialist (CNSS) from ICSI.
- Introduction to Cybersecurity Tools & Cyber Attacks (IBM).
- Cyber Threat Intelligence (IBM).
- Cybersecurity Roles, Processes & Operating System Security(IBM).
- Network Security & Database Vulnerabilities (IBM).
- Introduction to Cybersecurity for Business (University of Colorado).
- Proactive Computer Security (University of Colorado).

INTERNSHIP EXPERIENCE

Software Engineering Virtual Internship | J.P. Morgan Chase & co (April, 2021)

- Gained solid understanding of the interface with a stock price data feed.
- Hands-on Experience with the J.P.Morgans Chase frameworks and tools.
- Fixing of the broken typescript files in the git repository.
- Special Data Visualization for the traders using JavaScript packet manager(npm).

Virtual internship on Digital and Social Engineering Investigation | ANZ (Sept,2020)

- Social Engineering investigations and its classification among various types of emails provided.
- Distinctive understanding of malicious attachments, suspicious links in emails and other phishing attempts for gathering confidential credentials information from the user.
- Investigation of malicious packets through a network traffic from a pcap file provided which took down the network.
- In-depth analysis of the TCP packets using Wireshark and Hex-Editor.

EXPERIENCE EARNED FROM MASTER'S DEGREE PROJECTS

- Detection of malware in android applications via android permissions using Tree-Based Ensembles. Achieved 95% accuracy by deploying our composite model which involves specialized tree-based machine learning algorithms such as RandomForest, DecisionTrees, XGBoost, AdaBoost classifiers for the detection of malware.
- Exploitation of vulnerabilities and gaining privilege of root access from two windows system namely (BLUE and ICE) from tryhackme website and a Linux system (Nezuko) from vulnhub website.
- Analyzing corporate network's security and its possible vulnerabilities.
- Collection of SIEM (Security information and Event Management) system logs caused due to various potential threats out in the wild.
- Development of a web application called as Kid's corner (Front end (UI): HTML5;Back-end: PHP; Database: MySQL). The project mainly concentrates on input and server-side validation, Complex password authentication, SHA-256 hashing and addition of SALT to the password before it is getting stored in the database, CAPTCHA authentication, Prevention of XSS and SQL injections, session and cookie management, overcoming OWASP top 10 listed vulnerabilities.
- Development of a web application called Kid's square by creating an EC2 instance from **AWS platform**. Wordpress is used for developing the UI of my application and Securing the application itself by using various other tools available from AWS such as AWS IAM, AWS Cognito, AWS shield, Web application firewall, Certbot Encryption on Linux (SSL/TLS), Cloud watch, CloudTrail, AWS Guard duty and AWS Inspector.
- In depth analysis of the Malwares (Emotet and Dridex botnets) by clearly understanding their exfiltration process, IOC's (Indicators of Compromise) and their kill chain process deployed for infection, followed by static analysis of the malware and the finally figuring out the counter measures for the elimination of the malware.
- In-depth overview in implementing the RSA digital signature scheme for a piece of phrase and understanding the signature generation and its respective verification.
- Security testing of a given application that involves White-box testing, black-box testing, SAST (static application security testing), DAST (Dynamic application testing) initially and automated tools were also used for further inspection of spotting the bugs later. Most of the possible errors formed due to lack of secure coding guidelines was fixed and replaced.

EDUCATIONAL QUALIFICATION

Master of Science in Cyber Security

(2:1)

National college of Ireland

January 2020 – January 2021

Modules: Network Security and Penetration Testing, Security Fundamentals, Secure development of web, Secure coding practices for development of applications, Basic Crypto graphical concepts, Malware analysis, Security in cloud services, IT law and ethics and Malware Analysis.

Final Thesis: Detection of malware in android applications via android permissions using Tree-Based Ensembles.

Bachelor of Engineering in Electronics and Communication

K.L.N college of Engineering (Anna University) (Madurai, India)

August 2015 - March 2019

HOBBIES AND INTERESTS

- I like to challenge myself with Cyber security related conundrums in my spare time. For instance, I try to exploit vulnerabilities in both windows and Linux machines from the TryHackMe site using virtual IP's provided and escalate its privileges. Other times, I enroll myself and participate in the beginner level CTF(capture the flag) events.
- I love playing games both indoors and outdoors. I am a keen Xbox gamer. Basketball is one of my favorite things to do since it relaxes my mind and improves my skills as a team player.
- I also like to practice playing my digital piano.
- Keeping myself updated with cyber threats and happenings in and around the world is also something I enjoy doing. I do my part of research by trying to breakdown the hack-chain and also analyze the case study reports of corresponding attacks.