Monish Teja Kolli

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Education:

NORTHEASTERN UNIVERSITY, BOSTON, MA, U.S.A

Master of professional studies in Informatics – Information Security and Management – [3.9/4.0] **Sep 2023 - Present**

Specialization: Cyber Security, Project Management

Course work: Ethical Hacking, Information Security Risk Mitigation and Management, Network Protection and Cloud Security

GITAM DEEMED TO BE UNIVERSITY, VISAKHAPATNAM, INDIA

B. Tech in Computer Science and Engineering – [3.2/4.0] **Jun 2019 – Apr 2023**

Specialization: Programming, Database Management, Project Management, Cyber Security

Course work: Cyber security, Fundamentals of Cyber Law, Computer Networks, Agile/Waterfall Development Methodologies

Technical Skills:

Computer Skills: C Programming, Python, HTML, CSS, Amazon AWS, Microsoft Azure, MySQL, Microsoft VBA Macros

Penetration Testing Tools: Kali Linux, Burp Suit, ZAP, Nmap, Metasploit, Wireshark, OAuth, SEIM tools, PowerShell

Security Frameworks: NIST CSF, ISO 27001, OWASP Top 10

Engineering: Software Development and Testing Methodologies, Cryptography, Fundamentals of Cyber Law, 5S Principals, Six Sigma, Optimization Techniques, Engineering Economics

Project Management: Project Planning and Scheduling, Risk Management and Mitigation, Incident Response Management

Work Experience:

Company Name: West Advanced Technologies Inc (WATI), Location: Bangalore, India

Job Role: Security Analyst and Penetration Testing Intern **May 2024 – Jul 2024**

• Led VAPT projects using Burp Suite, Nmap, and Metasploit, coordinating with team members to resolve over 80% of critical vulnerabilities, resulting in a 95% improvement in security

• Collaborated with cross-functional teams to enhance threat detection capabilities, achieving a 60% reduction in incident response time through continuous monitoring and analysis using SIEM tools

• Assisted in creating and implementing security policies and procedures, which strengthened the organization's security posture by 90% and ensured compliance with industry standards

• Developed detailed security reports and presented findings to management, clearly communicating risks and recommended mitigations, leading to informed decision-making and reinforced security measures

Company Name: Terra Automation, Location: Visakhapatnam, India

Job Role: Product Security and Management Intern **Dec 2022 – Feb 2023**

• Conducted security assessments of IoT devices, collaborating with engineering teams to identify vulnerabilities and implement solutions that improved device security by 60%

• Led a team of 7 in engineering and showcasing innovative IoT projects at exhibition fairs, significantly enhancing the company's visibility and market presence, while effectively managing project timelines and resources

• Implemented advanced testing methodologies in the production environment, coordinating with production teams to reduce errors by 20%, which enhanced product reliability and operational efficiency

• Designed and executed a prototype automation system, which improved operational throughput by 25% and reduced manual interventions

Projects:

AWS CLOUD SECURITY ARCHITECTURE:

• Architected and carried out a comprehensive Security Mitigation Plan for Flipkart's 2021 data breach using Amazon AWS security services, resulting in a 40% reduction in vulnerability incidents and ensuring compliance across all departments

• Identified and mitigated critical vulnerabilities within the cloud infrastructure by leveraging AWS services and following NIST CSF and ISO 27001 security frameworks, significantly enhancing the overall security posture

KEYLOGGER:

• Developed a custom Python keylogger for cybersecurity research, utilizing pynput for keystroke capture, real-time monitoring, and automated email-based reporting. Integrated the Gmail API to send encrypted logs securely via OAuth 2.0.

• Designed the keylogger as a seamless, background-running application, focusing on ethical considerations and gaining hands-on experience with malware behaviour, anti-detection techniques, data encryption, penetration testing, and secure authentication.

WEB APPLICATION VAPT ASSESSMENT and MITIGATION:

• Performed end-to-end Vulnerability Assessment and Penetration Testing (VAPT) on web applications based on the OWASP Top 10 framework, using tools like Burp Suite, Nmap, ZAP, and Metasploit to detect and remediate high-impact security risks, which led to a 90% enhancement of the application's security posture.

• Utilized skills in MySQL, and web development (HTML, CSS) to identify and prioritize critical vulnerabilities such as broken access controls and SQL injection, significantly fortifying defence layers by 40% and minimizing the attack surface

NETWORK TRAFFIC ANALYSIS:

• Monitored and analysed network traffic patterns to detect anomalies, identifying potential security threats and reducing false positives by 30% through advanced filtering techniques.

• Collaborated with security teams to document findings and recommend mitigation strategies, enhancing network protection and reducing incident response time by 20%.

Certificates:

- Google Cybersecurity Specialization, Google **Oct 2024**
- CompTIA Security + Exam SY0-701, Total Seminars, Udemy **Sep 2024**