Rahul Kumar

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SKILLS/CERTIFICATIONS

Scripting Languages and Operating Systems: Python, JavaScript, Shell, LaTeX, Linux, Windows and MacOS
Applications: GitHub, Burp Suite, JIRA, Okta, Osquery, Neo4j, Qualys, Terraform, Splunk, Wazuh and IBM QRadar.
Standards and Practices: OSINT, OWASP, SIEM, NIST, CIS, PCI DSS, ISO 27001, HIPAA, GDPR, SSL/TLS, AES, RSA, ECC.
Tools: Docker, Nmap, Metasploit, Wireshark, Directory Traversing tools, OWASP ZAP, Hydra, Nessus and SQLmap
Certifications: *CompTIA* Security+, *CompTIA* CySA+, CCSK, *EC-Council* : Certified Ethical Hacker, *Microsoft Technology Associate* : Security Fundamentals, *Microsoft Technology Associate* : Networking Fundamentals

PROFESSIONAL EXPERIENCE

George Mason University (Research Assistant)   **Fairfax, Virginia | January 2024 – Present**
- Led Cybersecurity and Data Analytics research initiatives, refining methodologies and enhancing data analysis. Managed multimedia content and project websites, effectively disseminating findings and leveraging advanced technologies.
- Utilized project management tools to create project timelines and coordinated teams to gather insights on technologies, ensuring timely delivery of critical data and fostering collaborations across academic and industry platforms.

George Mason University (Graduate Teaching Assistant)   **Fairfax, Virginia | January 2022 – December 2023**
- Implemented project-based learning and simulation techniques in Computer Networking and Cyber Security, boosting engagement for70+ students each semester.
- Engineered Python-integrated Selenium tools for automatic grading, enhancing efficiency and precision by 30%.
- Mentored 500+ students, seamlessly incorporating cutting-edge digital security trends, leading to a 15% improvement in student grades compared to previous year.

Cyber3ra (Cybersecurity Intern)   **New Delhi, India | May 2021 – August 2021**
- Significantly enhanced data security and cryptographic operation speeds by 12% through the strategic selection and implementation of HSMs, elevating the organization's encryption capabilities.
- Enriched day-to-day cryptographic services for a global payments processor, managing SLAs and ensuring the high availability of encryption and key management solutions.

JSC Golla Engineering Pvt Ltd (Security Analyst)   **Remote, India | June 2019 – April 2021**
- Optimized and fortified metrics and reports on vulnerability management and assessments, implementing segmentation and isolation strategies that reduced cyber-attacks by 13%.
- Spearheaded technical support and expertly analyzed and SIEM alerts with IBM QRadar and Splunk, elevating threat detection by 10% through advanced network and log data analysis, enhancing cybersecurity defenses.
- Directed investigations into malicious email, led vulnerability assessments, coordinating with internal teams to identify threats. Conducted security training for 50+ staff, enhancing organizational security awareness.

PROFESSIONAL PROJECT

WebCrawler (Research Analyst: George Mason University)   **August 2023 – December 2023**
- Developed WebCrawler for private data extraction and identified 20+ security issues by detecting hidden links in source code comments for 1 million websites.
- Integrated a rotating proxy system with Python libraries (Requests, bs4, spacy), enabling unique IP and port assignments per server request and achieving 95% accuracy.

Malware Analysis (George Mason University)   **August 2022 – December 2022**
- Conducted comprehensive malware analysis of a keylogger in a secure virtual sandbox, employing Static and Dynamic Analyses and Reverse Engineering with tools like IDA Pro, OllyDbg, YARA, and FakeDNS to uncover its functionality.
- Identified critical vulnerabilities and risks exploited by malware, demonstrating expertise with tools like PEiD, Virus Total, and Process Monitor for in-depth malware fingerprinting, obfuscation detection, and network analysis.

EDUCATION

George Mason University   **Fairfax, Virginia, USA**
Master of Science in Information systems, Cybersecurity Engineering (GPA: 3.74)   **August 2021 – December 2023**

Madan Mohan Malaviya University of Technology   **Uttar Pradesh, India**
Bachelor of Engineering in Computer Science (GPA: 3.10)   **August 2017 – May 2021**