Shreyas Ramesh

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EDUCATION

University at Buffalo, The State University of New York, US **August 2023 – August 2024**
Master of Science in Cybersecurity *GPA - 3.75*
Research assistant under Prof. Raj Sharman.
Courses - Software security, System security, Cryptography, Network Security, Digital Forensics, Cybersecurity Analytics

Jawaharlal Nehru Institute of Technology Hyderabad, India **August 2016 – November 2020**
Bachelor of Technology in Information Technology *GPA - 3.2*

PROJECTS

Cybersecurity Project **February 2024**
- Enhanced network security expertise through practical application of packet sniffing and spoofing techniques, improving vulnerability detection and resolution capabilities.
- Set up Wireguard VPN access points synchronised with Windows Active Directory, ensuring encrypted remote connectivity and prioritizing authenticated user access. Implemented SSL/TLS certificates to ensure privacy and data integrity in specific private zones, strengthening overall security measures.

SOC-GPT **March 2024**
- Created a fine-tuned LLM model using retrieval augmented generation (RAG) which reads from SOC runbooks and delivers precise insights, increasing threat detection and mitigation capabilities of security operations teams.

Guardian Shield **December 2023**
- Designed and deployed a multi-tiered website accessible to internet, incorporating network segmentation and integrating Centre for Internet Security (CIS) controls into systems improving security posture of the infrastructure by 25 percent.
- Conducted proactive vulnerability analysis utilizing OpenVAS and CIS-CAT, fortifying system defenses and ensuring compliance with industry standards.

Endpoint controls with a lens on PCI DSS **January 2024 - April 2024**
- Conducted thorough research and published a book chapter identifying crucial endpoint controls including SIEM, XDR, and NGFW, mapping capabilities to PCI frameworks to pinpoint gaps and improvement opportunities.
- Additionally, advocated for implementation of zero-trust principles and adoption of diverse security tools to bolster organizational defense.

EXPERIENCE

University at Buffalo **January 2024 – May 2024**
Teaching Assistant *Buffalo, NY*
- Mentored and assisted students to understand Cybersecurity concepts such as Network security, Web application security, Software security, Vulnerability assessment and Information security under Prof. Kevin Cleary.

Value Momentum **December 2020 – July 2023**
Azure DevOps Engineer *Hyderabad, India*
- Built 16 end-to-end environments consisting of multiple key azure resources including virtual machines, cloud services, storage accounts and CosmosDBs.
- Enabled 129 production releases by promptly resolving any deployment issues.
- Analyzed and triaged 250+ real time production issues focusing on application recovery.
- Recognized for delivery excellence by automating and deploying Powershell automation scripts at scale for 200+ servers, reducing manual effort by 50+ hours.
- Authored 50+ technical documents documenting process intricacies and best practices.
- Enhanced security measures by seamlessly connecting multiple websites with SAML for single sign-on and implemented LDAP for centralized user authentication across systems.
- Mentored junior members and facilitated cross functional collaboration leading to drop in errors, faster deployments and shorter escalation resolution time.

TECHNICAL SKILLS

Languages: Python, Powershell, Bash, HTML/CSS, SQL
Technical skills: Cloud Computing, Docker, Kubernetes, Linux, Ansible, Terraform, Azure DevOps, Elasticsearch-Logstash-Kibana (ELK), Penetration Testing, Windows Active Directory, API/Web Application security.
Tools: Splunk, Wireshark, Wazuh, Burpsuite, Metasploit, Palo Alto, Dynatrace, Datadog, OWASP Zap.
Certifications: CompTIA Security+, Azure Administrator, Azure Fundamentals.