Nadesh Subramanian

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Education

New York University
M.S. Cybersecurity (CGPA – 3.97/4.0)
Anna University
B.E. Computer Science (CGPA – 3.72/4.0)

Professional Experience

Senior Security Engineer   **Remote, NYC**
Pragra   May 2024 - Present
- Implement and maintain secure cloud infrastructure using AWS security services like Security Hub, IAM, Inspector, aligning with NIST and OWASP guidelines to enhance platform resilience.
- Lead cross-functional security reviews and remediation strategies for CI/CD pipelines, integrating IaC tools like Terraform and security-focused unit testing in Python.
- Deliver technical mentorship and training on security best practices to engineering teams, driving secure development culture in Agile environments.

Adjunct Professor   **Brooklyn, NY**
New York University   Jun 2023 - Present

Infrastructure Security & CI/CD - Graduate Developer   **New York, NY**
NYU High Speed Research Network (HSRN)   Feb 2023 – May 2024
- Implemented advanced intrusion detection capabilities by integrating Zeek using Docker containers.
- Configured network access security using IEEE 802.1X protocol on Dell SonicWall via PacketFence.

Senior Software Developer   **Bangalore, India**
Null Errors   Oct 2021 - Aug 2022
- Designed and deployed scalable web applications in a cloud-native environment using Python and JavaScript, incorporating secure coding principles across the SDLC.
- Automated infrastructure provisioning and configuration using Ansible and CloudFormation, reducing manual deployment time by 60%.
- Collaborated with QA and security teams to triage vulnerabilities and performance issues, ensuring timely fixes and alignment with compliance policies.

Software Developer   **Bangalore, India**
Null Errors   Sep 2020 - Oct 2021

Research & Development

Security Researcher (Phd Candidate) - SSL NYU
TUF - The Update Framework   Sep 2023 - Jan 2024
- Built security telemetry pipelines for real-time monitoring of software updates, integrating with SIEM solutions to detect unauthorized modifications.

Uptane - secure software update framework for automobiles   Aug 2022 - May 2023
- Developed risk mitigation strategies to prevent vehicle attacks through software update channels for V2.0.

Project - MailMask   2021- 2023
Sole Developer - legacy page
- Developed and launched a free, publicly accessible email masking platform to enhance user privacy and online security by preventing direct email exposure.

Project - ANUBIS   Since 2022
Project Developer/Admin , Github , Website
- Introduced support for rootless Docker within the IDEs, enhancing security and flexibility for user environments.

Technical Skills

Operating Systems: Windows, Linux (Ubuntu, RHEL, Kali, Alpine), macOS
Programming Languages: Python, Java, C, C++, Bash, JavaScript, Assembly (x86, ARM)
Tools & Technologies: Splunk, Zeek, Snort, Suricata, Prometheus, Qualys VMDR, Nessus, Tenable, Burp Suite, Metasploit, Wireshark, Nmap, GDB, Ghidra, Exploit DB, IDA Pro, Git, Docker, Kubernetes, Terraform, Jenkins,Uptane, AUTOSAR, CANalyzer, CANoe, ELK Stack, QEMU

Certifications

AWS Cloud Practitioner & AI Practitioner (Early adopter)	Jan 2025
Comptia CySa+.	Mar 2024
Qualys Certified Expert - Vulnerability Management	Jan 2023