Nadesh Subramanian

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Education

New York University
M.S. Cybersecurity (CGPA – 3.97/4.0) Graduated May 2024
Anna University
B.E. Computer Science (CGPA – 3.72/4.0)

Professional Experience

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

Security analyst   **Remote, NYC**
Pragra   May 2024 - Oct 2024
- Develop and execute test plans, evaluate control effectiveness, and document findings including remediation recommendations.
- Monitor compliance with security policies and escalate issues when noncompliance is identified.

Application Security Intern   **Remote, NYC**
Pen Test Partners   May 2023 - Aug 2023
- Conducted security research and assessments for embedded systems, focusing on automotive CAN Bus security and ECU communications.
- Utilized SIEM tools and Python scripts for real-time event correlation, anomaly detection, and intrusion response in vehicle networks.
- Presented security findings in collaboration with **WSJ**, PTP, and NYU SSL Lab to produce an video. [view here]

Infrastructure Security & CI/CD - Graduate Developer   **New York, NY**
NYU High Speed Research Network (HSRN)   Feb 2023 – Present
- 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.

Research & Development

Founder - Campus Cabs   Mar 2025 - Present
- Developed a conceptual mobility model to enhance student navigation across NYU's New York City campus; project incubated through NYU's Entrepreneurship program.

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.
- Implemented multi-signature approval workflows with threshold cryptography, ensuring decentralized control over software signing operations.

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.
- Researched methods for securing vehicle-to-cloud (V2C) communications using TLS and digital signatures.

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
Others: NIST Cybersecurity Framework (CSF), ISO 27001, SOC 2, PCI-DSS, CIS Controls, HIPAA

Certifications

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