VIJAYAVARMAN ARUNASALAM HARIKRISHNAN

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EDUCATION

M.S. Cybersecurity

Rochester Institute of Technology, Rochester, NY **CGPA – 3.96/4** ***Aug 2023-Dec 2025****

- ***Relevant Coursework:*** Cryptography & Auth, Cyber Analytics & ML, IoT Security, Network Security, Computer System Security, Social Engineering, Covert Communications, Information Security Policy & Law, Adv. Computer Forensics

B. E. Computer Science & Engineering

Meenakshi College of Engineering, Chennai **CGPA - 8.3/10** **Aug 2016-*Apr 2020***

SKILLS

- **Languages:** C, Java, Python, SQL | **Operating System:** Windows, Linux (Ubuntu, Kali Linux), Windows Server 2019.
- **Tools:** Wireshark, Nmap, Metasploit, Burp Suite, Snort, Wazuh, FTK Imager, Autopsy, Volatility, Cisco Packet Tracer, John the Ripper, Hydra, Maltego | **Frameworks:** NIST CSF, NIST RMF.

CERTIFICATIONS

- **Fortinet Certified Fundamentals in Cybersecurity** **Mar 2025**
- **Fortinet Certified Associate in Cybersecurity** **Mar 2025**
- **Google Cybersecurity Professional Certificate** **Feb 2025**
- **CompTIA Security+**: (SY0-701) – Credential ID: BBYQNNMZGER4Q89Y **Aug 2024**
- **SC-900:** Microsoft Security, Compliance, and Identity Fundamentals ***Apr 2022***
- **AZ-900:** Microsoft Azure Fundamentals ***Mar 2022***

COMPETITIONS

- **NCAE Cyber Games 2025** – Finished 3rd among the top 12 teams from the East Overflow region ***Mar 2025***
- **CyberSeed 2024 CTF**: Completed 87% of challenges and placed 23rd out of 160+ teams ***Mar 2024***

PROJECTS

Legal Compliance Analysis for Breach Remediation ***Oct 2024 – Dec 2024***

- Collaborated in a team of 4 to analyze a simulated organization's data breach, identifying non-compliance with regulations such as HIPAA, PCI DSS, GDPR, GLBA, and NYDFS.
- Applied the NIST Cybersecurity Framework (CSF) to propose actionable solutions for closing compliance gaps and strengthening privacy and security measures.

Attack Defend Exercise: Securing a Corporate Infrastructure ***Mar 2024 – May 2024***

- Built and secured a corporate network (AD, FTP, Web, NTP, Mail, DNS), leveraging Wazuh and Snort for real-time detection and logging of over 5,000 brute-force attempts across critical services.
- Exploited vulnerabilities like EternalBlue, SQL Injection, and Path Traversal to successfully infiltrate 5 adversary networks, exfiltrating sensitive data while documenting and mitigating security gaps.

Enhancing Digital Twin Security through Partial Homomorphic Encryption ***Oct 2023-Dec 2023***

- Implemented the ElGamal cryptosystem to secure Digital Twin data, ensuring privacy while supporting secure computations.
- Built a proof-of-concept model for securely computing cardiac output, integrating MATLAB and Jupyter Notebook for encrypted data processing.

TEACHING EXPERIENCE

Rochester Institute of Technology *Teaching Assistant – Introduction to Cybersecurity* ***Jan 2025-Present***

- Guide students with weekly activities and assignments on key cybersecurity concepts such as network security, risk management, and system defense techniques.
- Grade assignments and provide constructive feedback for 50+ students, helping them strengthen their understanding of cybersecurity principles such as access controls, compliance laws, and regulations.

Rochester Institute of Technology *Teaching Assistant – Cryptography and Authentication* ***Aug 2024-Dec 2024***

- Designed 4 Python and Java assignments to test understanding of cryptographic concepts like Substitution Cipher, RC4, AC-5, and MD5.
- Graded assignments and provided detailed feedback to help students improve their implementation of cryptographic algorithms and secure coding practices.

PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions, *Chennai* *Associate* ***Jan 2023-Aug 2023***

- Automated API testing workflows using Selenium, reducing overall testing time by 30% and improving efficiency.
- Mentored 5+ new team members, improving team productivity through knowledge transfer and training.

Cognizant Technology Solutions, *Chennai* *Programmer Analyst* ***Nov 2021-Dec 2022***

- Developed and executed 50+ test cases (manual and automated) each release using Selenium in Eclipse IDE, ensuring software quality and collaborating with cross-functional teams to resolve critical defects.

Cognizant Technology Solutions, *Chennai* *Programmer Analyst Trainee* ***Nov 2020-Nov 2021***

- Contributed to 3+ mini-projects utilizing Selenium, TestNG, and Junit and gained real-time project experience.