Harsh Shroff

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EDUCATION

Stevens Institute of Technology   Hoboken, NJ
Master's of Science in Cyber Security   Aug 2023 – May 2025
Coursework: Risk Management for Financial Security, Foundations of Cryptography, Enterprise Security Architecture   GPA: 3.33 / 4.0

Ganpat University   Ahmedabad, IN
Bachelor's of Technology in Computer Science and Engineering (minors in Cyber Security)   Jul 2019 – May 2023
Relevant Coursework: IAM, Data Security, Security Incident & Event Management, Malware Analysis   GPA: 8.56 / 10.0

SKILLS

Cybersecurity Skills: Strategy & Policy Development, Threat Intelligence, Network Security, Vulnerability Management, Zero Trust.
Regulatory Awareness: Familiarity with IT management laws, policies, GDPR, CCPA, SOX, HIPAA, and PCI DSS compliance.
Languages & Tools: IBM Guardium & QRadar, Splunk, X-Force, S3, Metasploit, Burp Suite, Nmap, Wireshark, Python, Git, Linux.
Soft Skills: Cross-functional Team Communication, Solution-Oriented Issue Management, Detailed Analysis, and Practical Resolution.

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology   Hoboken, NJ
Course Assistant   Jan 2024 – May 2024
- Engineered and curated comprehensive study materials and assessments, contributing to a 29% improvement in student grades.
- Mentored and supported 30+ students on complex legal and security issues, significantly boosting overall course participation.
- Orchestrated and led 15+ engaging lectures and labs on Information Security and the Law, elevating student comprehension.

Kanoda Energy Systems Pvt. Ltd.   Ahmedabad, IN
Security Architect   Jan 2023 – Apr 2023
- Conducted thorough and comprehensive audits and risk assessments, neutralizing threats and improving security posture by 36%.
- Spearheaded collaborative efforts with cross-functional teams, fortifying secure infrastructure and amplifying resilience by 23%.
- Devised and enforced cutting-edge security protocols, resulting in a 52% reduction in security breaches across all systems.

técrave   Ahmedabad, IN
Principal Security and Compliance Analyst   Oct 2020 – Apr 2023
- Directed security policy reviews and updates, strengthening organizational security posture and minimizing vulnerabilities by 28%.
- Developed and implemented robust compliance frameworks, ensuring adherence & reducing non-compliant incidents by up to 43%.
- Led cross-departmental initiatives to integrate compliance requirements, enhancing operational efficiency and regulatory alignment.

PROJECTS & RESEARCH EXPERIENCE

AI-Enhanced Fuzz Testing in Fintech: A New Paradigm in Fintech Cybersecurity   Sep 2023 – Dec 2023
- Proposed a novel framework for implementing AI-driven fuzz testing in fintech, offering efficient solutions to protect financial data.
- Pioneered integration of AI with traditional fuzzing techniques, increasing the detection rate of vulnerabilities in fintech applications.
- Conducted comprehensive experiments demonstrating effectiveness of AI-enhanced fuzz testing, resulting in a 28% improvement in identifying critical flaws compared to conventional methods.

Secure Automated Smart Data Collection System   Feb 2023 – Apr 2023
- Engineered a Python app to extract & process data from diverse sources, achieving a 65% reduction in manual data processing time.
- Adopted and implemented a DevSecOps approach to effectively mitigate threats, resulting in a 40% reduction in security incidents.
- Optimized data extraction and processing workflows, enhancing security by integrating secure coding practices.

Financial Transaction Monitoring Using Supervised Machine Learning   Aug 2022 – Dec 2022
- Engineered an AML risk classifier using Random Forest, achieving an accuracy of 91.8% in predicting fraudulent transactions.
- Designed and trained a supervised machine learning model for monitoring financial transactions, improving fraud detection rates.
- Integrated the classifier into the project's existing financial systems, streamlining operations and boosting overall transaction security.

ACTIVITIES & LEADERSHIP

- Graduate Peer Leader at Stevens Institute of Technology, mentoring peers and promoting cybersecurity awareness and best practices among the student community.