

Tanishq Ashish Kothari

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

Master of Science in Cybersecurity Engineering - GPA: 3.95/4

Courses: Web Application Security, Security Systems, Security and Privacy, Applied Cryptography, Computer Systems Assurance

Los Angeles, CA

Aug 2022 - May 2024

UNIVERSITY OF PUNE

Bachelor of Technology in Computer Engineering - GPA: 9.07/10

Pune, India

Aug 2018 - May 2022

SKILLS

Application Security : OWASP Top 10, SIEM, Identity and Access Management, Incident Response, Log Analysis, Infrastructure Security, Cybersecurity Risk Compliance and Management, CCF, Vulnerability Management, Threat Modeling, Penetration Testing, CWE Top 25, Network monitoring

Security frameworks: PCI DSS, CCF, NIST, HIPAA

Languages: Python, C, C++, Java

Tools and Technologies:, Nmap, Metasploit, Burp Suite, SQL map, PCI network infrastructure, AWS, Azure, ERP, Firewalls, IDS, IPS, Wireshark, Packet tracer, Splunk, Microsoft Office Suite, HTML, PHP, UiPath, Snort, Tableau, SOX, PCI, Internal Controls

WORK EXPERIENCE

TECH MAHINDRA

Cyber Security Intern

Pune, India

Mar 2022 - Jul 2022

- Identified and mitigated potential network vulnerabilities by tracking and blacklisting 500+ malicious IP addresses: improved network security and reduced potential breaches by 30%.
- Analyzed and monitored extensive datasets in Splunk, identifying and addressing security threats; streamlined processes, saving 100+ hours monthly in manual analysis.
- Collaborated with senior IT teams to conduct security awareness training sessions for employees, empowering them to recognize and report potential security threats.

CODE DECODE LABS PVT. LTD

Cyber Security Intern

Pune, India

May 2021 - Oct 2021

- Conducted comprehensive vulnerability assessments and penetration tests on client systems, prioritizing critical security weaknesses and recommending remediation strategies, resulting in a 25% reduction in cyber threats.
- Conducted over 15 risk assessments, generating detailed insights into the discovery of 50+ vulnerabilities.
- Provided detailed vulnerability assessment reports, highlighting findings of over 11 critical security gaps, effectively conveying technical information to non-technical stakeholders and assisting in the implementation of security best practices.

PROJECTS

SECURE DECENTRALIZED AUDIT SYSTEM

- Implemented and prototyped a secure electronic audit system, focusing on privacy, identification, authorization, queries, and immutability within electronic health record (EHR) systems.
- Leveraged Ethereum smart contracts, MetaMask wallet, and React.js for system implementation, while generating audit logs of account creation, deletion, login, logout, and failed login attempts for compliance monitoring.

RSA KEY EXCHANGE

- Designed and implemented a secure communication system utilizing AES encryption for data security and RSA encryption for key protection, ensuring confidentiality and integrity of transmitted messages.
- Developed Python scripts, to generate RSA key pairs and perform encryption and decryption of messages, showcasing practical skills in secure communication systems development.

HEALTH DATA PROTECTION

- Identified potential threats to protected health information (PHI) under HIPAA regulations, and evaluated the adequacy of existing policies in covering the entire threat space.
- Outlined HIPAA-compliant safeguards, data security and access control mechanisms across bioinformatics systems and clinical informatics platforms to ensure patient data confidentiality, integrity, and security.

ACTIVITIES

- Teaching Assistant for CSCI 530- Security Systems with Professor Clifford Neuman: Facilitated hands-on labs and provided guidance on cryptography, systems security, and Linux permissions, enhancing student learning for over 180 students.
- Teaching Assistant for CSCI 531- Applied Cryptography under Professor Tatyana Ryutov for over 50 students.
- Led and mentored a team to deliver cybersecurity awareness talks, to 5 organizations with 200+ participants in total.
- Led the VIIT Model UN as Chairperson and Organizer; organized and hosted a 2-day conference with 200+ attendees.