SHANTANU VARTAK

Mail | LinkedIn | Github | Portfolio

EDUCATION

UNIVERSITY OF WASHINGTON, Bothell, WA, US   *Sept' 2025 – May' 2027*
Master of Science (MS) | Cyber Security Engineering | Incoming
Relevant Coursework: Cryptography, Information Assurance and Cyber Security

VELLORE INSTITUTE OF TECHNOLOGY, Bengaluru, KA, IN   *Jul' 2024 – Jun' 2025*
Post-Graduate Program (PGP) | Cyber Security Specialization | GPA: **4/4**
Relevant Coursework: Cryptography, Cloud Security, Database Management Systems, Python

SYMBIOSIS SKILLS AND PROFESSIONAL UNIVERSITY, Pune, MH, IN   *Aug' 2020 – Jun' 2024*
Bachelor of Technology (B.Tech.) CS/IT | Cyber Security Specialization | GPA: **3.5/4**
Relevant Coursework: Physical Security, Digital Forensic, Malware Analysis, OSINT, Identity and Access Management

EXPERIENCE

SUMA SOFT PVT. LTD., Pune, Maharashtra, IN | **Security Analyst Intern**   *Jun' 2023 – Dec' 2023*
- Accomplished a 70% reduction in security risks using post-remediation scans by conducting end-to-end Vulnerability Assessment and Penetration Testing (VAPT) on client systems and web applications.
- Improved system resilience by 50% as evaluated in quarterly audits by identifying critical flaws including injection vulnerabilities and misconfigurations using tools like Burp Suite, Nmap, Metasploit, and OpenVAS.
- Achieved 100% compliance with internal security reporting protocols by preparing comprehensive technical reports and mitigation strategies, contributing to the security posture of enterprise systems.

INVASYSTEMS INC., Pune, Maharashtra, IN | **Android Application Development Intern**   *Jun' 2022 – Jul' 2022*
- Accomplished secure role-based access for 100+ users as measured by authorization success logs by developing a full-stack ticketing app using Java, Node.js, and MySQL.
- Increased security coverage during development phase by 60% as measured through internal code reviews by integrating input validation, secure data flow, and basic threat models.
- Reduced risk of unauthorized access by implementing layered access and real-time session tracking across roles.

ERNST & YOUNG, Remote, IN | **Cyber Security Intern**   *Aug' 2021 – Sep' 2021*
- Acquired enhanced audit readiness across client systems through alignment with ISO 27001 and NIST SP 800-53 frameworks by analyzing organizational risks and compliance gaps.
- Recommended best practices that improved policy alignment by 40% by contributing to governance and compliance documentation based on research across multiple sectors.

PROJECTS

Donate Now | *Blockchain-based secure donation platform* | GitHub   *Feb' 2025*
- Achieved 100% transaction traceability as verified through Ethereum testnet records by implementing smart contract-based donation flow.
- Improved user data integrity and reduced unauthorized access attempts by 60% by integrating secure login (JWT), API protection, and MongoDB security protocols.

DeCap (Decentralized Capital) | *Semi-decentralized FinTech App* | GitHub   *Nov' 2024*
- Enabled secure financial transactions with zero contract vulnerabilities reported by deploying Solidity-based smart contracts and Node.js backend.
- Improved user trust and system resilience by 75% by enforcing hashed credentials, secure HTTP headers, and robust access control.

SKILLS

Penetration Testing & Offensive Security Skillset

VAPT, Web App Security, API Security, OWASP Top 10, Network Security

Programming Skills

Python, Java, C, C++, Solidity, Node.js, SQL

Security Tools

Burp Suite, Metasploit, Nmap, Nessus, OpenVAS, Wireshark, Kali Linux, Aircrack-ng, Veil, Maltego

CERTIFICATIONS

Ethical Hacking from Scratch | UDEMY | Credential Link   *Jul' 2021*

Network Ethical Hacking | UDEMY | Credential Link   *Nov' 2020*