

SHANTANU VARTAK

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EXPERIENCE

- Suma Soft Private Limited**, Pune, Maharashtra, IN | **Security Analyst Intern** **Jun' 2023 – Dec' 2023**
- Conducted security assessments by identifying and exploiting OWASP Top 10 vulnerabilities across enterprise environments.
 - Researched and developed custom Python scripts to simulate real-world attacker TTPs, boosting detection capabilities by 50%.
 - Presented findings to security leadership, including detailed attack chains and bypass methods.
- Invasystems Incorporated**, Pune, Maharashtra, IN | **Android Application Development Intern** **Jun' 2022 – Jul' 2022**
- Integrated security-by-design principles with focus on preventing mobile exploitation (RBAC, encryption, secure data handling).
 - Hardened application against common mobile threats (insecure storage, data exposure, injection attacks), reducing risk by 60%.
- Ernst & Young**, Remote, IN | **Cyber Security Intern** **Aug' 2021 – Sep' 2021**
- Performed risk and compliance assessments using ISO 27001, NIST CSF and NIST SP800-53 frameworks to identify control gaps.
 - Assisted in policy review and governance updates, improving compliance posture by 40%.
 - Collaborated with teams to apply risk mitigation strategies and improve secure operations across client environments.

EDUCATION

- University of Washington**, Bothell, WA, US **Sep' 2025 – May' 2027**
- Master of Science (MS) | Cyber Security Engineering* | Now Attending
- 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: Malware Analysis, OOP using Java, OS Concepts, Identity and Access Management

PROJECTS

- Web-Exploit Toolkit** | *Webapp Vulnerability Scanner* | [GitHub](#) **Aug' 2025**
- Developed Python-based offensive security tool for automated vulnerability assessments and exploitation of XSS, SQLi, CSRF, Open-Redirects, Directory Traversals, etc.
 - Implemented curated payloads and authenticated scan support, reducing manual exploitation effort by 50%.
- Donate Now** | *Blockchain-based Secure Donation Platform* | [GitHub](#) **Feb' 2025**
- Developed a secure Ethereum smart contract donation platform ensuring transaction traceability and cryptographic integrity.
 - Integrated JWT-based authentication, API protection, and secure coding practices to reduce unauthorized access by 60%.
- DeCap (Decentralized Capital)** | *Semi-decentralized FinTech WebApp* | [GitHub](#) **Nov' 2024**
- Secured financial transactions using Solidity smart contract audits and a protected Node.js backend.
 - Enhanced user trust by implementing hashed credentials, secure HTTP headers, and strict access control policies.

EXTRA-CURRICULARS

- Gray Hats Cybersecurity Club** | University of Washington Bothell
- Active Member* | (2025 - Present) | CTFs / Security Workshops / Red-Blue Team Challenges
- WRCCDC Invitational Competition** | University of Washington Bothell
- #2 Invitational Participant | 2025 | Defended TREX (Windows Server 2016) AD, Domain Controller and DNS
- TryHackMe Top 9%**
- Iterative Practice* | (2023 - Present) | Solving machines, learning advanced SOC simulation and pentesting methodologies

SKILLS & TOOLS

- Security Skillset**
Risk Assessment, Data Loss Prevention, Threat Management, Incident Response, AWS, Azure, GCP Fundamentals, Access Control
- Programming/Scripting**
Python, PowerShell, C, C++, Java, Solidity, JavaScript, SQL, Bash
- Tools and Frameworks**
Wireshark, Nessus, Splunk, Nmap, Sysmon, Tenable, Qualys, AWS, Azure, GCP, NIST CSF & SP800-53, ISO 27001, MITRE ATT&CK

CERTIFICATIONS

- Jr. Penetration Tester** | Tryhackme | [Credential Link](#) **Jul' 2025**
- Security+** | CompTIA | [Credential Link](#) **Dec' 2025**