

AVINASH SHARMA

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SUMMARY

Cybersecurity enthusiast with hands-on experience in penetration testing, malware analysis, and CTF development. Active HackTheBox player (global top 1,000) and lead of EcryptEdge & RCS CTF. Skilled in Linux, networking, scripting (Python, Bash, PowerShell), and security tools including Burp Suite, Wireshark, Metasploit, and Splunk. Strong communicator with proven leadership and research ability, eager to grow into a Security Analyst role.

EXPERIENCE

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| Hack The Box | July 2023 - Present |
| <ul style="list-style-type: none">Demonstrated expertise as a Capture The Flag player on HackTheBox platform, achieving the rank of Hacker.Solved 30+ machines of easy to hard difficulty levels, with global ranking of 808 and global team ranking of 62. | |
| CTF Administration and Development | April 2023 - Present |
| <ul style="list-style-type: none">Developed custom challenges for CTF competition, covering a range of cybersecurity domains, including binary exploitation, reverse engineering, steganography, forensics and cryptography.Provided technical support and addressed as well as faced issues related to event handling and CTF hosting. | |

PROJECTS

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|---|-----------------|
| PyVTFile Python, API, Hashing, Encryption | Jan 2023 |
| <ul style="list-style-type: none">Easy to use desktop application for detecting if a file is malicious or not.Created backend for API communication to VirusTotal Database.Incorporated hash-based detection of Malwares like in IDS/IPS systems.Learned about web requests, API handling, Hashing, and json.hail0hydra/PyVTFile | |
| QwertyCapture-lite Registry, Keylogger, Persistence, Malware | Aug 2024 |
| <ul style="list-style-type: none">Basic keylogger that simulates how a keylogger works on a Windows based environment.Incorporated persistence mechanism for hiding malware in plain sight even after reboot.Learned about Persistence via Registry Keys, Process Management, File Handling and Event Handling.hail0hydra/QwertyCapture-lite | |
| DISdomain host , nslookup, DNS, bash, internal network | Dec 2024 |
| <ul style="list-style-type: none">Reverse DNS lookup tool for Internal network enumeration for vhosts and subdomainsLearned about reverse DNS lookups using host and nslookupPracticed bash scripting for automating this process.hail0hydra/DISdomain | |

EDUCATION

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| <ul style="list-style-type: none">BTech (Computer Science and Engineering) - CGPA: 7.1Lovely Professional University Punjab, India | 2021- 2025 |
| <ul style="list-style-type: none">Intermediate (Percentage: 89)Kendriya Vidyalaya No.1 AFS Pune Pune, Maharashtra | March 2021 |
| <ul style="list-style-type: none">Matriculation (Percentage: 95)Kendriya Vidyalaya No.1 AFS Pune Pune, Maharashtra | March 2018 |

SKILLS

- Languages:** Intel x86 Assembly, JavaScript, Python, SQL, C, C++, Bash, PowerShell, Lua
- Networking & OS:** OSI Model, TCP/IP, Linux/Unix, Windows Server, Virtualization (KVM/QEMU), Docker
- Security & Monitoring:** Firewall concepts, Security Monitoring, Cyber Risk Management, Automation in Security (scripting, tool integration)
- Tools & Platforms:** Nmap, Burp Suite, Wireshark, Metasploit Framework, Hashcat, SQLMap, Nikto, Nessus, ffuf, gobuster, Wappalyzer, Postman, curl, certutil
- Reversing & Malware Analysis:** Ghidra, IDA, Binary Ninja, GDB, x64dbg, Crackmes, Malware Persistence Techniques
- Cloud & Dev:** AWS (fundamentals), Azure (fundamentals), React, Vite, Node.js, Bun.js, CMS (WordPress), API Development, Postman
- Soft Skills:** Leadership, Project Management, Communication, Teamwork, Presentation