

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

Hack The Box

July 2023 - Present

- 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

- 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

PyVTFile | Python, API, Hashing, Encryption

Jan 2023

- 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

- 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

- Reverse DNS lookup tool for Internal network enumeration for vhosts and subdomains
- Learned about reverse DNS lookups using host and nslookup
- Practiced bash scripting for automating this process.
- [hail0hydra/DISdomain](#)

EDUCATION

- **BTech (Computer Science and Engineering) - CGPA: 7.1** 2021- 2025
- *Lovely Professional University | Punjab, India*
- **Intermediate (Percentage: 89)** March 2021
- Kendriya Vidyalaya No.1 AFS Pune | Pune, Maharashtra
- **Matriculation (Percentage: 95)** March 2018
- Kendriya Vidyalaya No.1 AFS Pune | Pune, Maharashtra

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