P HEMANTH GUPTA

Offensive Security | VAPT | CTF Player | Security Tool Development

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SUMMARY

Cybersecurity undergraduate focused on offensive security. I build security tools in Python, compete in CTFs, and build challenges and lab infrastructure. I practice on TryHackMe, PortSwigger labs, and Hack The Box.

EDUCATION

Velammal Engineering College 2024 - 2028
B.E. Computer Science & Engineering (Cyber Security) | CGPA: 8.04/10 | Chennai

Kola Saraswathi Vaishnav Senior Secondary School 2021 - 2024
Class XII: 86.33% (2024) | Class X: 89.16% (2022) | Chennai

TECHNICAL SKILLS

Languages	Python (primary), C, Java, SQL / MySQL, Bash (basics)
Offensive Security	VAPT, Web Application Security, OWASP Top 10, SQL Injection, XSS, OSINT, Cryptography
Security Tools	Nmap, Burp Suite, Wireshark, Scapy, Metasploit, SQLMap, Hashcat, Gobuster, Nikto
Frameworks	FastAPI, Flask, PyQt6, Ollama
Environment	Linux (Kali, Arch), Git, VirtualBox

EXPERIENCE

Co-Founder & CEO May 2026 - Present
NodeKraft
- Co-founded an online agency delivering web development, AI automation, SEO/AEO/GEO optimization, and branding.
- Lead website delivery, combining implementation with visual identity and search-focused improvements.

Research & Development Engineer Apr 2026 - Present
CybercomCTF
- Research vulnerabilities and develop penetration testing workflows and offensive security tools.
- Build and test vulnerable lab environments and CTF infrastructure for hands-on learning and challenge delivery.

Designer | CybercomCTF - Created event branding, digital assets, and presentation materials. Oct 2025 - Apr 2026

Tech Co-Head & Core Member Jan 2026 - Present
Cyventura Club
- Co-organized AKIRA CTF with 300+ registrations and 30+ challenges across four tracks.
- Contributed to challenge design, testing, deployment, event branding, and technical coordination.

Technical Coordinator Sep 2026
Noctivus '26 Symposium
- Co-built the symposium website with the team and led technical event coordination.

CTF Player & Challenge Developer Jan 2026 - Present
HiResLossless
- Solve team-based CTF challenges across security categories, build challenges, and share findings with teammates.

PROJECTS

Aegis | Python, FastAPI, SQLite, Cowrie, Docker
- Local SOC and deception lab that ingests Cowrie telemetry and tracks incidents.
- Explains detections and exports evidence-linked analyst reports.

ThrustGuard | Python, FastAPI, Isolation Forest, Ollama, SQLite
- IoT behavioral trust scoring with policy rules, statistical drift checks, and anomaly detection.
- Hash-chained audit logs and LLM-assisted incident reports.

SpecterNet | Python, PyQt6, Scapy, Threading
- Network analysis tool with live packet capture, HTTP/FTP/Telnet/SMTP inspection, and traffic visualization.
- Plaintext credential detection and threaded port scanning.

ACHIEVEMENTS

- **1st Place:** College Internal Hackathon (SIH Qualifier Round), TechNologic Coding Event
- **3rd Place:** VIT CyberQuest CTF, MGR CryptClash CTF, College QR Debugging Event
- **4th Place:** What's The Flag CTF | **5th Place:** SRM KTR HTB CTF
- Co-organized AKIRA CTF and AAZHI CTF; conducted technical seminars; attended security meetups and a conference