AMAN GOUR

B.Tech Cybersecurity | Ethical Hacker | Digital Forensics Aspirant

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PROFESSIONAL SUMMARY

Cybersecurity student with hands-on experience across 8 internships spanning penetration testing, red teaming, digital forensics, network security, and secure software development — including a live VAPT engagement in information security (Excessive Data Exposure finding, ISO 27001 support) and an ongoing red team role (Kali Linux, Metasploit, Wazuh, Suricata, MITRE ATT&CK). Recognized as an OASIS Star Performer and 1st Runner-Up at the Prompt2Product Hackathon. Proficient in offensive and defensive security tools including Metasploit, Burp Suite, Wireshark, and Nmap. Active on TryHackMe and HackTheBox; member of the ARCSEC cybersecurity club. Aiming for M.Tech/MS in Cybersecurity via GATE/PMRF with a long-term goal of contributing to national cyber defense.

EDUCATION

B.Tech in Cybersecurity | SVIT, Secunderabad (R22)

- III Year
- Active member of ARCSEC Cybersecurity Club

INTERNSHIP EXPERIENCE

Information Security Intern | Intuitive Data Solution Pvt Ltd (IDS)

- Ran a live VAPT engagement on a healthcare web application — identified and documented an Excessive Data Exposure vulnerability (OWASP API3:2023) and conducted IDOR testing
- Intercepted and analyzed HTTP traffic via Burp Suite with FoxyProxy; produced formal DOCX finding and security assessment reports
- Supported implementation of ISO 27001 controls

Red Team Cybersecurity Intern | CyArt Security (CyArt Tech LLP)

- Red team track: completed a 4-week attack-chain progression against an isolated lab (Kali Linux vs. Metasploitable2) — vulnerability assessment and exploitation with Metasploit, detection/response analysis via Wazuh, Suricata, and CrowdSec, engagements mapped to MITRE ATT&CK
- Delivered a Week 4 capstone full adversary-simulation exercise on Metasploitable2, covering C2 infrastructure and payload evasion
- ETIP track: contributing to an AI-powered Enterprise Email Threat Investigation Platform for SOC/IR use cases — built and tested an email parsing & validation module (email_parser.py) producing structured canonical JSON output

Cybersecurity Intern | Supraja Technologies

- Built a Windows desktop webcam security auditor scanning HKCU/HKLM registry hives to surface per-app camera permissions
- Implemented live camera-in-use detection and password-gated per-app access revoke/restore

Cybersecurity Virtual Intern | VOIS (Vodafone Idea Foundation) — AICTE & Edunet Foundation

- Completed the AICTE & VOIS Tech University Engagement Program virtual internship on cybersecurity, delivered through Edunet Foundation
- Covered network security, threat analysis, and cyber defense strategies

Cybersecurity Intern | Cyber War Labs

- Conducted VAPT on practice environments; participated in CTF challenges covering offensive and defensive scenarios

Python Developer Intern | VaultsOfCode

- Built web applications using Python, Flask, and SQLite3; deployed REST API endpoints

Web Development Intern | Elevate Lab

- Developed responsive front-end web pages using HTML, CSS, Bootstrap, and JavaScript

Security Analyst Intern ⭐ Star Performer | OASIS Infobyte

- Completed 10 security analyst tasks — Nikto scans, Wireshark traffic analysis, and SQL injection attacks against DVWA
- Performed network reconnaissance, incident response documentation, and security assessment reporting
- Awarded Star Performer Certificate for outstanding contributions

CYBERSECURITY PROJECTS

GhostMode ON | Python, Flask, OpenCV, PyCryptodome, Bootstrap 5, JavaScript

- Full-stack Flask web app hiding encrypted secrets inside images and audio via LSB steganography, with drag-and-drop UI and live demo
- AES-256-CBC encryption (PBKDF2-HMAC-SHA256 key derivation), zlib compression, and SHA-256 integrity verification on extraction

Webcam Security Auditor | Python, Tkinter, winreg, OpenCV

- Windows desktop app auditing per-app webcam permissions across HKCU/HKLM registry hives, flagging live camera use
- Built during Supraja Technologies internship for a cybersecurity training program

Network Mapper | Python (stdlib only)

- Zero-dependency CLI port scanner built for an AICTE submission — ping-sweep host discovery, TTL-based OS fingerprinting, TCP/UDP scanning, SYN stealth probing
- Banner grabbing, risk-tagged results, a scan-history diff engine, and exportable CSV/JSON/HTML reports

Key Logger (Educational) | Python, pynput

- Keystroke capture tool built for cybersecurity education, demonstrating threats and ethical hacking concepts

Smart Resume | JavaScript, HTML, CSS, Bootstrap, Python, Flask, OpenAI API, jsPDF

- AI-assisted web app guiding users from a blank page to a polished, ATS-friendly resume with intelligent phrasing suggestions

TECHNICAL SKILLS

Offensive Sec: Metasploit, Meterpreter, Nmap/Zenmap, Burp Suite, Ettercap, Bettercap, DVWA, SQL Injection

Defensive Sec: Wireshark, Wazuh, Suricata, OpenVAS, MITRE ATT&CK, API Security (OWASP)

Languages: Python, C, Java (basics), HTML, CSS, Bootstrap, JavaScript

Frameworks: Flask, SQLite3, pynput, watchdog, hashlib, pycryptodome, OpenCV

Platforms: Kali Linux, ParrotOS, Metasploitable 2, VirtualBox, TryHackMe, HackTheBox, PicoCTF, PortSwigger

Tools & Dev: Git & GitHub, FoxyProxy, VS Code, Nmap, Zenmap

CERTIFICATIONS & COURSES

- Bootcamp on Windows Forensic Analysis — C-DAC Thiruvananthapuram, FutureSkills PRIME
- Certified Ethical Hacking (CEH) — TuteDude
- API Security Fundamentals + OWASP API Security — APISEC University
- API Authentication & Documentation — APISEC University
- Securing APIs (ACP Certificate) — APISEC University
- Cyber Security 101 — TryHackMe
- Pre Security — TryHackMe
- Advent of Cyber 2025 — TryHackMe
- Hacker Holiday — TryHackMe
- Cybersecurity Workshop — Blue Team Cybersecurity / JNTUH
- Shield 2.0 Workshop — Telangana Cyber Security Bureau
- IITH Technical Workshop — IIT Hyderabad
- ISEA Short-Term Course: Web Application Security and Exploitation Techniques — IIT Hyderabad (Sept 2026)
- Diploma in Python & MS-Office — GEENI Computer Education (2020)

ACHIEVEMENTS & ACTIVITIES

- 1st Runner-Up, Prompt2Product Hackathon — Cognitive Nexus Club, Dept. of AI & DS, SVIT (Aug 2026)
- OASIS Star Performer — Awarded for exceptional performance during cybersecurity internship (2025)
- Faculty Development Program: Agentic AI & Autonomous Data Science Systems — AICTE ATAL Academy & SVIT (Aug 2026)
- ARCSEC Club — Active member; co-organized 'SPARK' event including automated certificate distribution via Google Apps Script
- Advent of Cyber 2025 — Completed full challenge track on TryHackMe
- Portfolio: amangour.netlify.app — Showcasing projects, certificates, and internship deliverables
- Interests: Ethical Hacking, SOC Operations, Digital Forensics, CTF Competitions, Anime