MAYANK PRIYADARSHI

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Cybersecurity Student | OSINT | VAPT | SOC | Digital Forensics | Network Security

PROFILE SUMMARY

Cybersecurity B.Tech student (CGPA 8.04, Batch 2027) with hands-on experience across penetration testing, OSINT, SOC operations, digital forensics, network security, and cryptography. Completed cybersecurity internship at Threat Prism, built 6 real-world security tools, and published research in AES-256 medical image encryption at RACCAI 2026 International Conference. Proficient in Burp Suite, Wireshark, Nmap, Metasploit, Autopsy, Splunk, and theHarvester. Certified in OSINT, Ethical Hacking, Azure Security, and Linux & Cybersecurity Fundamentals. Maintained 200+ day TryHackMe streak completing SOC, OSINT, and threat intelligence labs.

TECHNICAL SKILLS

- **Penetration Testing & VAPT:** Burp Suite, Metasploit, Nmap, Gobuster, Hydra, Nikto, Zphisher, OWASP Top 10, Web App Security, Android Pentesting
- **OSINT & Threat Intelligence:** OSINT Suite, theHarvester, Shodan, Google Dorking, WHOIS, SOCMINT, Metadata Analysis, Digital Footprint Analysis, Fake Identity Investigation
- **SOC & SIEM:** Splunk, Log Analysis, DDoS Attack Investigation, Security Alert Monitoring, Incident Triage, Incident Response, IOC Analysis
- **Digital Forensics:** Autopsy, Disk Image Analysis, Forensic Artifact Extraction, Incident Documentation, Root Cause Analysis
- **Cryptography:** AES-256, Symmetric & Asymmetric Encryption, SHA-256, RSA, PKI, Digital Signatures, Chaotic Maps (Logistic, Henon)
- **Networking:** TCP/IP, DNS, HTTP, Firewall, IDS/IPS, Wireshark, Snort, Network Monitoring, Packet Analysis
- **Programming & Scripting:** Python, Java, Bash/Shell Scripting, Kotlin (Android), Flutter
- **OS & Infrastructure:** Linux System Administration, Windows, Git, GitHub, Microsoft Azure
- **Mobile & App Development:** Android (Kotlin, Flutter), Firebase, Android SDK

INTERNSHIP / TRAINING

Cybersecurity Intern — Threat Prism May 2025 – July 2025

- Developed a Python-based network port scanner for automated network discovery, service enumeration, and security analysis — directly supporting SOC monitoring and network security workflows.
- Conducted Android application penetration testing using Genymotion, identifying mobile vulnerabilities and documenting findings in structured security reports.
- Performed digital forensics investigations using Autopsy, analyzing disk images and extracting forensic artifacts for incident documentation and root cause analysis.

Python Intern — YBI Foundation Nov 2024 – Dec 2024

- Built a Handwritten Digit Recognition system using TensorFlow/Keras achieving 98.2% accuracy on 70,000 MNIST samples — applying deep learning and data analysis skills.

Java Full Stack Training — BRIZTECH INFOSYSTEMS Nov 2023

- Built a Library Management System in Java with MySQL database integration, applying OOP design and full-stack development skills.

PROJECTS

Vulnerable Web Application & Automated Exploit Suite Oct 2025

- Engineered a Flask/SQLite web application simulating OWASP Top 10 vulnerabilities (SQLi, XSS, broken authentication) as a controlled ethical hacking and security testing environment.
- Built automated Python exploit scripts for vulnerability detection and produced structured technical documentation covering attack vectors, triage steps, and remediation strategies.

  Tech Stack: *Python, Flask, SQLite, Requests, BeautifulSoup*

DDoS Attack Log Analysis — Splunk SIEM Investigation

- Performed structured log analysis using Splunk to investigate a DDoS attack simulation — identifying malicious source IPs, attack traffic patterns, and request frequency anomalies from raw log data.
- Produced a detailed incident report documenting attack timeline, source IP mapping, affected systems, and recommended mitigation strategies.

  Tech Stack: *Splunk, Log Analysis, Python*

Automated Reconnaissance & OSINT Suite

- Developed a custom Python-based OSINT intelligence gathering tool performing automated WHOIS lookups, DNS record enumeration (A, MX, NS records), and IP geolocation via REST APIs.
- Generated structured JSON and TXT investigation reports with timestamps — supporting attack surface mapping and threat intelligence workflows.

  Tech Stack: *Python, python-whois, dnspython, REST APIs, Rich*

Network Discovery Tool

- Built a multi-threaded GUI-based network discovery tool performing ping sweeps, port scanning across 65,535 ports, reverse DNS lookups, and service banner enumeration with real-time visualization.
- Implemented structured JSON report generation supporting network monitoring, security analysis, and incident documentation workflows.

  Tech Stack: *Python, Tkinter, Socket Programming, Multi-threading*

Medical Image Encryption Using AES-256 and Chaotic Maps

- Developed a GUI-based healthcare image security application implementing AES-256 encryption combined with Logistic Map and Henon Map chaotic systems — published at RACCAI 2026, 3rd International Conference.
- Implemented SHA-256 key derivation, chaotic pixel permutation, and SSIM-based decryption validation — generating encrypted .bin files for secure medical image sharing.

  Tech Stack: *Python, PyCryptodome, NumPy, Tkinter, PIL, scikit-image*

Focus Blaster — AI Productivity App

- Developed an AI-powered Android productivity application using Flutter and Kotlin that blocks distracting notifications and restricts entertainment app access during study sessions.
- Integrated Firebase for real-time data sync and Master AI for intelligent focus session management — demonstrating mobile security concepts including app access control and notification management.

  Tech Stack: *Flutter, Kotlin, Firebase, Master AI, Android SDK*

Handwritten Digit Recognition System

- Built and trained a neural network model on 70,000 MNIST samples achieving 98.2% test accuracy — implementing data preprocessing, feature normalization, and interactive digit prediction interface.

  Tech Stack: *Python, TensorFlow, Keras, NumPy, Google Colab*

ACHIEVEMENTS

- Maintained 200+ day active streak on TryHackMe — completed SOC path, OSINT labs, Splunk rooms, and 100+ CTF challenges across network security, digital forensics, and threat analysis.
- Secured Global Rank 1654 out of 30,000+ participants in Prime Code Champ Contest — Top 5.5% globally.
- Published research co-author — presented at RACCAI 2026, 3rd International Conference, Chandigarh Group of Colleges University.
- Delivered a technical seminar on Cryptography to 60+ attendees — demonstrating strong technical communication and public speaking skills.
- Participated in multiple national-level hackathons, delivering practical cybersecurity solutions under time constraints.
- Served as Core Coordinator for large-scale campus events, leading cross-functional volunteer teams end-to-end.

PUBLICATIONS

Priyadarshi, M. et al. *A hybrid encryption model for medical image security in IoT healthcare* — Presented at RACCAI 2026, 3rd International Conference, Chandigarh Group of Colleges University.

CERTIFICATIONS

- Open Source Intelligence (OSINT) — CodeRed by EC-Council | September 2026
- Android Bug Bounty Hunting: Hunt Like a Rat — CodeRed by EC-Council
- Certified Ethical Hacker — Cisco Networking Academy
- Shields Up: Cybersecurity Job Simulation — AIG (Forage)
- Cybersecurity Analyst Job Simulation — Forage (TATA)

- Cyber Job Simulation — Deloitte
- Certified Cybersecurity Educator Professional (CCEP) — Red Team Leaders
- AWS Academy Graduate — Cloud Foundations | Amazon Web Services
- Microsoft Azure Security Technologies — NASSCOM
- ControlCase One Audit Questions with Examples — ControlCase
- Linux & Cybersecurity Fundamentals — LearnTube

EDUCATION

B.Tech — Computer Science & Engineering (Cybersecurity) 2024 – 2027
Chandigarh Group of Colleges, Jhanjeri | CGPA: 8.04

Diploma — Computer Science & Engineering 2021 – 2024
Government Polytechnic Ranchi | CGPA: 7.9

Secondary School — K Sudharshan Central School, Bermo Bokaro 2021