

# Aayush Raj

Phone: +91 9123258168 | Email: [aayush.raj@myyahoo.com](mailto:aayush.raj@myyahoo.com)

LinkedIn: [Aayush-Raj](#) | GitHub: [Aayush-Raj-Singh](#)

Sitamarhi, Bihar, India

## PROFESSIONAL SUMMARY

Cybersecurity graduate specializing in VAPT, SOC operations, and threat intelligence with hands-on experience in penetration testing, CVE analysis, SIEM concepts, and network defense. Strong background in Python-based security automation and real-world attack simulation aligned with MITRE ATT&CK and OWASP.

## EDUCATION

**Government Engineering College, West Champaran**

*Bachelor of Technology in Computer Science Engineering (Cyber Security) - GPA: 8.04/10*

Nov 2022 - May 2026

*Bihar, India*

## TECHNICAL SKILLS

**Cybersecurity:** VAPT, Network Defense, Threat Intelligence, SIEM, Blue Team Operations, DFIR, Incident Response, OWASP Top 10

**Tools:** Nmap, Wireshark, Burp Suite, Metasploit, Cisco Packet Tracer, Kali Linux

**Networking:** TCP/IP, DNS, NAT, Routing & Switching, Infrastructure Hardening

**Programming:** Python (Security Scripting), Bash Scripting, SQL Basics

## PROFESSIONAL EXPERIENCE

**Cyber Security Intern (SOC / VAPT)**

*INVIGO INFOTECH*

Dec 2025 - Jan 2026

*Hybrid*

- Conducted enterprise-level risk assessments across 15+ client systems, identifying 40+ security misconfigurations and high-risk weaknesses
- Analyzed threats and deployed industry-standard mitigation controls, improving remediation prioritization efficiency by ~30%

**Offensive Cyber Security Intern (Penetration Testing)**

*InLighnX Global Pvt Ltd (InLighn Tech)*

Jun 2025 - Jul 2025

*Remote*

- Executed penetration testing and exploit validation on simulated enterprise environments, confirming 25+ exploitable attack vectors
- Conducted adversarial simulations using ethical hacking methodologies aligned with MITRE ATT&CK and OWASP frameworks

**Virtual Internship in Cybersecurity**

*Cisco*

Jun 2025 - Aug 2025

*Remote*

- Completed 100+ hours of enterprise-grade training in infrastructure protection, defensive operations, and architecture fundamentals
- Applied CCNA-level routing, switching, and access control concepts to real-world networking implementations

## SECURITY PROJECTS

**Agent-less Windows System Vulnerability Scanner** | [GitHub](#) | *Python, Network Analysis, CVE Database*

2026

- Designed and engineered an agent-less Windows weakness detector assessing OS, services, and network subsystems without endpoint installation
- Automated CVE-based flaw discovery and exploit availability correlation across 50+ system components
- Generated comprehensive reports with risk scoring, remediation guidance, and compliance alignment, reducing manual assessment effort by ~60%

**Cyber Threat Intelligence AI System** | [GitHub](#) | *Machine Learning, Web Scraping, Threat Intel*

2025

- Built an ML-powered threat intelligence platform focused on Indian cyberspace with near real-time cyber incident tracking
- Established real-time data aggregation pipelines scraping dark web forums, paste sites, and social platforms, processing 1,000+ threat indicators
- Architected a threat correlation engine delivering actionable intelligence for Critical Information Infrastructure (CII) protection

**Cryptographic Algorithm Identifier** | [GitHub](#) | *AI/ML, Cryptanalysis, Pattern Recognition*

2025

- Created a machine learning classifier to identify modern cryptographic algorithms from encrypted datasets
- Leveraged statistical feature extraction and pattern recognition techniques to achieve high classification accuracy across multiple encryption methods

**OEM Vulnerability Monitoring Tool** | [GitHub](#) | *Web Scraping, Security Advisory Automation*

2024

- Built an automated patch tracking system monitoring security advisories across 10+ OEM portals for IT and OT equipment
- Deployed real-time alerting for critical and high-severity exposures, reducing threat awareness latency by ~70%

ADDITIONAL SKILLS

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**Core Competencies:** Analytical Thinking, Problem-Solving, Attention to Detail, Effective Communication, Team Collaboration  
**Languages:** English (Professional Proficiency), Hindi (Native)

CERTIFICATIONS & TRAINING

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**EC-Council:** Ethical Hacking Essentials (EHE)  
**Cisco CCNA:** Enterprise Networking, Security, and Automation | Introduction to Networks  
**Tata Group:** Cybersecurity Analyst Job Simulation  
**Cisco:** Virtual Internship Program - Cybersecurity