

AAYUSH RAJ

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PROFESSIONAL SUMMARY

Cybersecurity Engineer 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. Known for analytical problem-solving, attention to detail, effective communication, and collaborative teamwork in security operations environments.

EDUCATION

Government Engineering College, West Champaran <i>Bachelor of Technology in Computer Science Engineering (Cyber Security) - GPA: 8.04/10</i>	Nov 2022 - May 2026 Bihar, India
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TECHNICAL SKILLS

- Cybersecurity:** VAPT, Network Defense, Threat Intelligence, SIEM, Blue Teaming, 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) <i>INVIGO INFOTECH</i>	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) <i>InLighnX Global Pvt Ltd (InLighn Tech)</i>	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 <i>Cisco</i>	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 <i>Python, Network Analysis, CVE Database</i>	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 <i>Machine Learning, Web Scraping, Threat Intel</i>	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 <i>AI/ML, Cryptanalysis, Pattern Recognition</i>	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 <i>Web Scraping, Security Advisory Automation</i>	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%	

CERTIFICATIONS & TRAINING

- 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