

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 Nov 2022 - May 2026
Bachelor of Technology in Computer Science Engineering (Cyber Security) - GPA: 8.04/10 Bihar, India

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) Dec 2025 - Jan 2026
INVIGO INFOTECH 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) Jun 2025 - Jul 2025
InLighnX Global Pvt Ltd (InLighn Tech) 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 Jun 2025 - Aug 2025
Cisco 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%

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