AJAY BOMMIDI

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Professional Summary

Cybersecurity Analyst | Penetration Tester | Ai-Security Researcher

Cybersecurity professional with expertise in offensive security (PenTesting, Ethical Hacking) and defensive security (SOC, Threat Detection, Incident Response). Skilled in network security, log analysis, threat intelligence, and digital forensics, with a strong ability to identify vulnerabilities, mitigate risks, and fortify IT infrastructures. Passionate about leveraging advanced security tools and AI-driven solutions to enhance cyber resilience and protect digital assets. Seeking a challenging role in offensive or defensive security within a security-driven environment.

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Skills & Expertise

- **Cybersecurity & Offensive Security:** Penetration Testing (Web ,Network), Red Teaming, Exploit Development, OSINT, Vulnerability Assesment.
- **SOC & Defensive Security:** SIEM(Splunk,ELK,Wazhu),Threat Hunting, Incident Response,Security Log Analysis, Network Security (IDS/IPS, Firewall, Vpns).
- **Technical Tools & Technologies:** Burp Suite, Metasploit, Wireshark, Nessus, OpenVAS ,Kali Linux, Splunk, ELK Stack, SIEM, Nmap, Python, Bash Scripting.
- **AI & Automation:** ML-Based Threat Detection, Ai-Powered Phishing Detection, NLP for Security Analytics, Cybersecurity Automation (Python, Bash, PowerShell).
- **Soft Skills:** Analytical Thinking, Problem-solving, Team Collaboration, Quick Learning.

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Professional Experience

.**Cybersecurity Intern**

Hactify Cyber Security | 2025

- Conducted Vulnerability Assessment & Penetration Testing (VAPT) on real-world applications.
- Performed web and network security testing, identifying critical vulnerabilities and suggesting remediation .

Cybersecurity Researcher Intern

Global Offensive Security | 2025 (present)

- Researched advanced cyber threats, focusing on exploit development and malware analysis.
- Developed custom security scripts and automation tools for penetration testing and forensic analysis.

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Projects

Safe-Link – AI-Based Phishing URL Detection :

Developed a machine learning-powered phishing detection system to classify malicious URLs.

Key Features: CNN-based feature extraction, NLP-based analysis, high-accuracy phishing detection.

ScanHammer – Cybersecurity Toolkit for PenTesting & SOC :

Created a toolkit to simulate DoS attacks and conduct network vulnerability assessments.

Key Features: TCP/IP fingerprinting, port scanning, SIEM integration for attack detection.

Anonymous – Online Anonymity Tool for Red Teaming & Privacy :

Developed a Python-based tool to enhance online anonymity using Tor-based IP rotation.

Key Features: IP masking, traffic obfuscation, real-time user interaction.

KeySpy – Ethical Keylogging for Threat Simulation :
Designed an automated keylogger for red teaming and security awareness training.
Key Features: Captures keystrokes, operates stealthily, tests endpoint security resilience.
CipherCLI – Interactive Caesar Cipher Tool
Built a command-line encryption tool for implementing and analyzing the Caesar cipher algorithm.
PixCrypt – Image Encryption & Decryption Tool
Developed a secure image encryption tool to protect digital assets using advanced cryptographic techniques.
OBNTATHLOS – OSINT Collection for Threat Intelligence
Built an automated OSINT gathering tool for SOC analysts and penetration testers.
ExploiterX – Automated Web Vulnerability Scanner
Developed a web security scanner to automate detection of security flaws in web applications.
SniffMaster – Advanced Network Packet Sniffer
Built a real-time network packet sniffer for analyzing and monitoring network traffic

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Education
B.Tech in Electronics & Communication Engineering (Expected May 2025)
Sir C.R. Reddy College of Engineering.

Certifications
- Certified Ethical Hacker (CISCO)
- Cybersecurity & Privacy (IIT Madras)
- Advanced Computer Networks (IIT Gandhinagar)
- AI & ML (Chip Electronics)
- Geo-data&Cybersecurity (ISRO)
- Cybersecurity Fundamentals (IBM)
- Ethical Hacking Essentials (EC-Council)
- Network Defence Essentials (EC-Council)
- Security Analyst (Reliance)
- Cybersecurity (HP)

Extracurricular Activities & Achievements
- Cybersecurity Club Member – Sir C.R. Reddy College of Engineering.
- Runner-up in a college hackathon for developing a secure web application prototype.
- Best Research Project Award for Safe-Link at Sir C.R. Reddy College of Engineering.
- Presented Cybersecurity Awareness Workshops at local community tech events.

Languages
- English (Fluent)
- Telugu (Fluent)