SHYAM J

Cybersecurity Analyst | Security Researcher

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ABOUT ME

Cybersecurity enthusiast and aspiring Security Analyst with a strong focus on Ethical Hacking, Vulnerability Assessment and Penetration Testing (VAPT), network security, and security research. Proficient in Python programming, security automation, Linux environments, and networking concepts, with a passion for uncovering vulnerabilities, improving security posture, and protecting digital assets.

EDUCATION

B.Tech – Artificial Intelligence and Data Science
Loyola institude of technology and science
Anna University 2022-2026

WORK EXPERIENCE

CABOCAB
Jun 2024 – Sep 2025 | 1 Year 4 Months

- Conducted security-focused testing and quality assurance activities for web and mobile applications.
- Identified, documented, and tracked application vulnerabilities, functional issues, and security risks.
- Collaborated with development teams to improve application security
- Assisted in vulnerability assessment and security review processes to enhance platform security
- Participated in testing workflows involving web applications and business logic validation.
- Prepared detailed reports for identified issues and supported remediation verification activities.

Ducktail Technologies
Website Testing Contributor
3 Weeks

- Performed end-to-end testing of the company website to identify functional issues and usability concerns.
- Reported bugs, UI inconsistencies, and workflow-related issues to the development team.
- Validated user flows, forms, and Web application behavior across different scenarios.
- Assisted in improving website stability, functionality, and user experience through continuous feedback and testing.

SKILLS

- Web Application Security
- Python
- linux
- Ethical Hacking
- Security Automation
- Vulnerability Assessment & Penetration Testing (VAPT)
- Basic Incident Analysis
- Risk Assessment
- Basic Malware Analysis
- Reconnaissance & Enumeration
- Security Misconfiguration Analysis

PROJECTS

Cybersecurity Research & Command Simulation Platform
Python | Networking | Automation | Security Research

- Developed a Python-based cybersecurity research and command simulation platform to explore secure communication workflows, remote task execution concepts, and system management techniques in controlled environments.
- Designed modular components for task management, client communication, and data handling using Python and networking concepts.
- Applied software engineering principles including modular design, error handling, and scalable project structure.
- Strengthened understanding of networking, process management, automation, and cybersecurity concepts through hands-on development.

AC X-Ray – Air Conditioner Cooling Analysis Platform
Python | PySide6 | Desktop Application Development

- Developed a Python-based desktop application using PySide6 to analyze and estimate an air conditioner's effective cooling performance using power consumption metrics.
- Designed an intuitive graphical user interface for collecting and processing energy usage data..
- build an Android application for AC-X Ray

Popeye XZ – XZ Utils Backdoor Detection Tool
Python | Cybersecurity | Security Research

- Developed a BashScript-based security utility to assist in identifying indicators related to the XZ Utils supply chain backdoor incident in Linux environments.
- Implemented automated checks to support rapid assessment and detection workflows.
- Designed the tool to simplify verification processes for administrators and security researchers.

Popeye Honey Port – Interactive Honeypot & Threat Intelligence Platform
Python | Cybersecurity | Threat Intelligence | Network Security

- Developed a Python-based honeypot platform capable of emulating common network services such as SSH and other TCP-based services to attract and monitor unauthorized connection attempts.
- Implemented detailed logging mechanisms to capture connection metadata, timestamps, interaction attempts
- Used Nmap to gather additional information about systems interacting with the honeypot for security analysis

CERTIFICATIONS

- **Certified Ethical Hacking** – Board Monk Cyber Security Services (Remote)
- **Cyber Forensics** – Board Monk Cyber Security Services (Remote)
- **Certified Offensive Security** – Cappricio Securities (Remote)
- **Android Secure Code Development & Advanced Web Exploitation** – Cappricio Securities (Remote)
- **Hardware Development & IoT Hacking** – Cappricio Securities (Remote)
- **CCNA Certification** – NetworkGeek, Chennai (Onsite)

MEDIA APPEARANCE

Cybersecurity Awareness Speaker – IndiaGlitz Tamil
Featured Guest Speaker | Cybersecurity Awareness Initiative

- Featured as a cybersecurity awareness speaker on a public digital media platform to educate users about digital privacy, mobile security, and cyber threats.
- Delivered awareness sessions in Tamil covering topics such as social engineering, public Wi-Fi risks, online privacy, and safe digital practices.
- Promoted responsible digital behavior and cybersecurity hygiene among the general public.