

Jay Singhvi

Cybersecurity Analyst / Web Developer

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Jaysinghvi-04

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Professional Summary

Cybersecurity Analyst and Red Hat Certified System Administrator (RHCSA) with a specialized focus on Network Security, System Hardening, and Penetration Testing. Demonstrated expertise in orchestrating secure Linux environments, automating vulnerability assessments using Python/Bash, and managing complex CTF infrastructures.

Technical Skills

Cybersecurity Tools	Nmap, Burp Suite, Metasploit, Wireshark, Hydra
Operating Systems	Red Hat Enterprise Linux (RHEL), Kali Linux, Ubuntu
Programming	Python, Bash Scripting, SQL, .NET Framework
Networking	TCP/IP, OSI Model, DNS, DHCP, SSH
Creative & Design	Designing, Video Editing, Blender (3D Modeling)

Experience & Leadership

- 2025 **Event Organizer, TryDec CTF (Capture The Flag), Udaipur**
- Organized a college-level CTF competition focused on Web Exploitation and Cryptography.
 - Designed custom challenges involving steganography and SQL injection.
 - Managed the event logistics and mentored participants on security tools and methodologies.

Key Projects

Cybersecurity & Network Engineering

- 2025 **TryDec CTF Environment, Linux Administration**
- Created and configured a custom Linux environment to host cybersecurity challenges.
 - Designed system architecture to securely deploy interactive questions and isolate participant sessions.
- 2025 **Cyber-Secure Mailer & Simulation Tool, Python/Flask, Network Security**
- Built a Python/Flask application for bulk email automation and social engineering simulations.
 - Implemented advanced security features including Brute-force protection and Honeypot intrusion detection.
 - Integrated detailed Forensic Audit Logging to track and analyze system activity.

- 2025 **Cloud Misconfiguration Scanner**, *Python, Cloud Security*
- Developed a Python-based tool to detect common security misconfigurations in cloud environments.
 - Automated the auditing process for S3 buckets and IAM policies to identify public access risks.
- 2025 **Network Port Scanner**, *Python, Networking*
- Created a multi-threaded port scanner using Python's socket library to identify open ports and services.
 - Optimized scanning speed and implemented banner grabbing for OS detection.
- Web Development & Design
- 2025 **PROJO - Project Management Tool**, *Web Development & Security*
- Built a collaborative project management platform with secure user authentication.
 - Implemented role-based access control (RBAC) to ensure data privacy between team members.
- 2024 **Inventory Management System**, *Full Stack Development (.NET/SQL)*
- Designed and developed a web application for efficient inventory management.
 - Built both frontend and backend architectures to manage the relationship between the user interface and the SQL database.

Education

- 2023–2027 **Bachelor of Technology in Computer Science and Engineering**, *Techno India NJR Institute of Technology, Udaipur*
Focus: System Security and Network Administration.
- 2009–2023 **Senior Secondary Schooling**, *St. Paul's Sr. Sec. School, Udaipur*

Certifications

- 2024 **Red Hat Certified System Administrator (RHCSA)**, *Red Hat*

Languages

- English Professional Proficiency
Hindi Native Proficiency