

# JAY SINGHVI

Cybersecurity Analyst | Web Developer

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Jaysinghvi-04

in jay-singhvi-9498a1339

## 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.

## Education

2023–2027 Bachelor of Technology in Computer Science and Engineering,

Techno India NJR Institute of Technology, Udaipur

2021–2023 Senior Secondary Schooling, St. Paul's Sr. Sec. School, Udaipur

## Skills

Cyber Nmap, Burp Suite, Metasploit, Wireshark, Hydra

OS Red Hat Enterprise Linux (RHEL), Kali Linux, Ubuntu

Coding Python, Bash Scripting, SQL, .NET Framework

Networking TCP/IP, OSI Model, DNS, DHCP, SSH

Design UI/UX Design, Video Editing, Blender (3D Modeling)

Soft Skills Project Management, Team Leadership

## Certifications & Training

2025 Red Hat Certified System Administrator, Red Hat

2025 Certified Solutions Architect - Professional, AWS

2025 Industrial Control Systems, SCADA

2025 Data Analytics Job Simulation, Deloitte

## Projects

2025 TryDec CTF Environment

- 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

- Built a Python/Flask application for bulk email automation and social engineering simulations.
- Implemented advanced security features including Brute-force protection and Honey-pot intrusion detection.
- Integrated detailed Forensic Audit Logging to track and analyze system activity.

#### 2025 Cloud Misconfiguration Scanner

- 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

- 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.

#### 2025 PROJO - Project Management Tool

- 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

- 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.

## **Experience & Leadership**

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#### 2025 Event Organizer, TryDec CTF (Capture The Flag)

- 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.

## **Languages**

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English Professional Proficiency

Hindi Native Proficiency