

# Shubham Singh

✉ shubham.cybersky@gmail.com ☎ +91 8922007972 📍 Vadodara, GUJARAT/INDIA

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## SUMMARY

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**Cybersecurity student** with hands-on experience in **Red Teaming, Web Application Penetration Testing, CTFs, and Attack Simulation**. Skilled in **Reconnaissance, Exploitation, OWASP Top 10**, and **Offensive Security Tools** such as **Burp Suite, Nmap, Metasploit, and Kali Linux**. Actively seeking a **Red Team Security Intern** role to contribute to **Real-World Adversary Emulation** and **Offensive Security Operations**.

## EXPERIENCE

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**Hacktify Cyber Security, Cybersecurity Intern**

08/2025 – 09/2025

– Internship

- Performed web application security testing aligned with OWASP Top 10
- Conducted reconnaissance and vulnerability discovery using Nmap & Burp
- Participated in attack simulations and exploitation labs
- Documented findings and remediation recommendations

## EDUCATION

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**Parul University, B.Tech in Cybersecurity**

06/2023 – Present  
Vadodara, Gujarat, India

- **Building a strong foundation in Ethical Hacking, Cryptography, Network Security, and Secure System Design.** Hands-on experience with **Networking concepts (TCP/IP, DNS, HTTP/S, firewalls, IDS/IPS)** and **Web Application Penetration Testing**, including OWASP Top 10 vulnerabilities. Actively developing skills in **SOC operations** (log analysis, SIEM monitoring, alert triage) and **DFIR** (incident response, memory/disk forensics, malware analysis fundamentals). Active learner on **TryHackMe (Top 3%), Hack The Box, BTLO, and PortSwigger Academy**, with a strong focus on real-world attack detection, investigation, and defense.

## TECHNICAL SKILLS

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### Red Team Operations

Reconnaissance, Exploitation, Privilege Escalation, Post-Exploitation, MITRE ATT&CK

### Web & Application Security

OWASP Top 10, Web Application Penetration Testing

### Languages & Scripting

Python, Bash, C

### Security Tools

Burp Suite, Nmap, Metasploit, Kali Linux, Wireshark

### Blue Team & DFIR (Foundational)

Log Analysis, SIEM (Splunk / ELK – fundamentals), Volatility, Autopsy, FTK Imager, YARA

## ACHIEVEMENTS & ACTIVITIES

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### Successfully completed NPTEL: Cryptography and Network Security [↗](#)

- Securing a spot in the Top 5% of learners nationwide.

### Runner-Up – Hacker Meetup, Parul University (Gujarat's Biggest Technical Event) [↗](#)

- Secured 2nd place after competing in Quiz, CTF, and Bug Bounty rounds, demonstrating strong cybersecurity skills.

### Core Team Member – The Hacker's Meet-Up & Polyversity Week 2025 (Parul University)

- Organized workshops, CTFs, and supported events under Bharat Blockchain Yatra – Season 2.

### Stay consistently updated on emerging threats, tools, and trends

- Through blogs, YouTube channels, and cybersecurity communities.

## PROJECT

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**MetaGuard**, *Your Files Tell a Story. Decide What They Say.*

01/2026

**MetaGuard** is a full-stack privacy-focused web application designed to help users analyze and remove sensitive metadata from files before sharing them. The platform allows users to upload documents, images, or media files, inspect embedded metadata, calculate a risk score based on potential privacy exposure, and optionally clean that metadata using configurable policies.

The system provides secure user authentication, personal dashboards, and history tracking so users can review past analyses. It also supports policy-based processing, enabling users to define rules for how metadata should be handled. Built with a Django REST backend and a React (Vite + TypeScript) frontend, MetaGuard offers a modern interface for managing digital privacy.

### Password Cracker Web App

- Built a modern web application for recovering numeric-only passwords (0-9) from encrypted files such as PDF, ZIP, 7Z, TAR, and RAR. The tool supports configurable digit lengths (1-8), shows real-time progress, and ensures privacy with local processing and automatic file cleanup. Designed with a clean, responsive UI, it automatically unlocks files and provides them for secure download.
- Link : [https://github.com/shubham4734singh/Password\\_Recovery](https://github.com/shubham4734singh/Password_Recovery)

### Permission Analyzer

- Developed a tool to analyze and monitor system/app permissions, helping users identify potential security risks and privacy concerns. The application scans permissions, highlights sensitive access (e.g., camera, location, storage), and provides a clear, user-friendly report. Designed with a modern interface and lightweight architecture to ensure fast local processing without compromising privacy.
- Link: In Progress (To be updated)