

Profile

Pre-final year B.Tech CSE student focused on **penetration testing and security engineering**, with hands-on experience discovering, exploiting, and validating vulnerabilities in web and Linux environments. Strong in translating findings into **practical mitigations**, scripting attack automation in Python, and rapidly ramping up on new systems. Ranked **Top 1% globally on TryHackMe** with applied offensive security experience.

Skills

Cybersecurity

Core Penetration Testing

- **Web & API penetration testing** (authentication, authorization, input validation, access control)
- Vulnerability discovery, **exploitation**, impact analysis & mitigation recommendations
- **OWASP Top 10**, Linux privilege escalation fundamentals
- Reconnaissance, enumeration & **post-exploitation** workflows

Offensive Security Tooling

- **Burp Suite**, **Nmap**, Metasploit, Wireshark
- Gobuster, ffuf, sqlmap
- Manual testing techniques alongside automated tooling

Scripting & Engineering

- **Python scripting** for reconnaissance automation & exploit prototyping
- Bash scripting for system enumeration
- Strong debugging and problem-solving mindset

Systems, Platforms & Environments

- **Linux internals**, system hardening & permission models
- Containers: **Docker**, Podman (rootless containers, image builds)
- Basic **Kubernetes / OpenShift** attack surface awareness
- Cloud fundamentals: **AWS & Azure**
- Secure coding practices & **dependency risk management**
- Integration of **security checks** (SAST, dependency scanning) into CI/CD workflows

Networking

TCP/IP, firewalls, port mapping, VPN basics, container networking

Soft Skills

Problem-solving, ownership, collaboration, communication, adaptability, leadership

Certificates

CompTIA Security+

Core cybersecurity principles

OSCP (Offensive Security Certified Professional)

In progress

Red Hat Certified System Administrator (RHCSA)

Linux system administration, and infrastructure

Microsoft AZ-900: Azure Fundamentals

Cloud fundamentals and services

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Education

SRM Institute of Science and Technology, Chennai

B.Tech in Computer Science Engineering
2027

Swarajya Senior Secondary School, Alwar

2023

Pawar Public School, Pune

2021

Professional Experience

DockSec – Container Security Analysis Tool

- Designed and built a **container security tool** inspired by real-world container attack surfaces
- Performs **static analysis** of container images to identify insecure configurations, risky permissions, and exposed services
- Analyzes **Dockerfiles** and container metadata to highlight **privilege escalation risks** and attack vectors
- Translates findings into **actionable security recommendations** and hardening steps
- Demonstrates understanding of **container internals**, Linux permissions, and **attacker mindset**

CI/CD Attack Surface & Security Testing

- Analyzed **CI/CD pipelines** as attack surfaces to identify insecure configurations and exposed secrets
- Simulated **attacker abuse paths** to assess impact and recommend mitigations
- Demonstrates **penetration testing mindset** beyond applications, including build and deployment systems

Client Projects (Zayn Skin Clinic, Minimoments

Nursery , Career Masters Singapore) ☀

- Built and maintained websites with automated CI/CD pipelines (GitHub Actions → Vercel/Netlify), reducing deployment effort by ~50%.
- Managed containerized workflows (Podman/Docker), configured CDN, and optimized assets (~30% faster load times).
- Integrated CI security gates (dependency scanning, linting/SAST) and performed Linux/container hardening.
- Monitored infra, troubleshoot issues, and collaborated with teams to maintain scalable, secure systems.

Cybersecurity Portfolio Website ☀

- Showcases **secure web development, automated CI/CD and applied cybersecurity practices**. Demonstrates skills in offensive/defensive security, vulnerability remediation, deployment automation, cloud fundamentals, and web stack expertise.

TryHackMe

- Globally ranked **Top 1%** on Pre-Security & Jr Pen Testing paths; applied offensive security in a safe environment.