

# AYUSH SHARMA

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## PROFESSIONAL SUMMARY

Cybersecurity and System Engineering student with hands on experience in Linux administration, Docker, networking, and web security. Built self hosted infrastructure and automated vulnerability assessment tools using Flask, Nmap, and SQLMap. Passionate about cloud security, penetration testing and infrastructure automation.

## PROFESSIONAL EXPERIENCE

### Network Administrator Intern

04/2026 – Present | Faridabad, Haryana

*System Engineers Cutting & Welding Pvt. Ltd.*

- Managed **Linux VMs** — user permissions, service management, and system health monitoring.
- Deployed 3+ internal apps using **Docker** and **Nginx** reverse proxy with **HTTPS** enforcement.
- Diagnosed network faults using **Wireshark** and **iPerf** — resolved latency and packet-loss issues.
- Implemented zero-trust remote access via **Tailscale** and **Cloudflare Zero Trust**, eliminating exposed VPN endpoints.
- Documented infrastructure setup and contributed to internal technical runbooks.

## EDUCATION

### Bachelor of Computer Applications: BCA

Aligarh, India

*Aligarh College of Engineering And Technology, Aligarh, India*

Expected Graduation: July 2026

## TECHNICAL SKILLS

### Penetration Testing

- Network Penetration Testing
- Ethical hacking principles
- Vulnerability Assessment
- Active Directory Pentesting
- API Pentesting

### Programming & Scripting

- Python
- JavaScript
- Next.js
- Bash

### Core Security knowledge

- OWASP Top 10
- HTTP/HTTPS
- TCP/IP
- Cryptography (Hashing, encryption, Keys)

### Tools

Burp Suite, Nmap, Wireshark, Nginx, SQLmap, Metasploit, Hydra, Kali-Linux, John the Ripper, Hashcat, Nessus, Docker, Cloudflare Zero Trust, Tailscale, Git/GitHub.

## PROJECTS

### Homelab Infrastructure [↗](#)

Built a self-hosted Docker stack of 6+ services (**Pi-hole, Nginx Proxy Manager, Vaultwarden, Snipe-IT, MariaDB**) with **SSL termination, DNS routing**, and inter-service networking configured from scratch on **Linux**.

### Web Security Assessment Dashboard [↗](#)

Developed a **Flask** app that unifies 5 tools (**Nmap, Nikto, Nuclei, WPScan, SQLMap**) into a single authorized scan pipeline — automating reconnaissance, vulnerability detection, and structured **report generation** from one interface.

### PulseGuard – Real-Time Uptime Monitoring System [↗](#)

Built a **Dockerized** monitor tracking availability and response time for websites, IPs, and TCP services — with **APScheduler** for automated checks, **SQLite** for history logging, and **Telegram alerts** for instant failure and recovery notifications.

## CERTIFICATIONS

- Cisco Networking Academy-Ethical Hacker Course
- CCEP By Red Team Leaders
- AI-Fluency: Framework & Foundation By Anthropic