Shivang Tiwari
Security Engineer

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SUMMARY

Dynamic Security Engineer with a strong foundation in **Vulnerability Assessment & Penetration Testing** (VAPT), and **Offensive Security Engineering**. Proven ability to **develop and automate security detection logic**, driving innovative solutions for **web, API, and cloud infrastructure security**. Adept at collaborating with diverse teams, from pentesters to product managers, **ensuring secure and scalable system design**. A natural leader, experienced in guiding communities and delivering impactful technical initiatives. Enthusiastic learner, committed to continuous exploration of emerging cybersecurity technologies and threats.

SKILLS

Linux | AWS Red Teaming | YAML| Python | Javascript | Shell | Git | Pentesting | Burp Suite | OWASP Top 10 | SQLMap | ZAP | Networking | OSINT

EXPERIENCE

Astra Security

SDE - I (Security)   *Jun 2025 – Present*

➔ Contributing to **AttackAI**, Astra's AI-powered vulnerability detection engine for **Web, API, and Cloud environments** (AWS, GCP, Azure). Targeting OWASP Top 10 vulnerabilities like Authorization Bypass, Injection, Broken-Access Control and many more.

➔ **Leading the Scanner Team**, overseeing sprint planning, roadmap development, attack path design, and implementation of core features for the **DAST** (Web & API) & **Offsec** (Cloud) engine.

➔ **Designed and maintained detection rules** and **cloud-focused** security checks across services like *CloudTrail, Lambda, Beanstalk, IAM misconfigurations,* and *storage exposure*.

➔ **Leading** & **Enhancing** API based automated security assessments & detections for the brand new **API Security** platform.

SDE Security Intern   *Feb 2025 – Jun 2025*

➔ Enhanced infrastructure for the **DAST scanner** for **Web & API based vulnerability** detections, gaining deep expertise in **OWASP ZAP**.

➔ Engineered secure, modular, and testable automation in **Python, Java, and JavaScript**, integrating seamlessly with **YAML-based** detection pipelines.

Association Of Computer Enthusiasts

President   *Dec 2022 – May 2025*

➔ Leading a 500+ member community, organizing workshops, projects, and major technical events like ACECTF1.0 & HackVSIT 6.0.

➔ Developed security-based projects, mentored juniors, and coordinated HackVSIT 5.0, managing logistics and operations.

PROJECTS

SafeDocs   *Jul 2024 – Sep 2024*

➔ SafeDocs is a privacy-focused web application designed to securely analyze and extract Personally Identifiable Information (PII) from digital documents, such as PDFs and images, while ensuring data security and compliance.

KarvIt   *Jan 2024 – Apr 2024*

➔ KarvIt is a Python-based GUI application designed for file carving. It allows users to extract specific file types, such as PNG, JPEG, PDF, and EVTX, from disk images. This tool is useful for digital forensics, data recovery, and analysis.

CERTIFICATIONS

Google Cybersecurity Professional Certificate, Coursera   *Nov 2024*

Completed an in-depth program covering security operations, risk assessment, incident response, and compliance with industry standards.

Certified Network Security Professional, The Secops Group   *Jul 2024*

Validated expertise in implementing and managing secure network architectures.

ACHIEVEMENTS

2nd Runners Up at BFCET Hack   Feb 2024

➔ Awarded 3rd Prize for *KarvIt,* a digital forensic tool designed to recover permanently deleted files from memory.

Top 1% On TryHackMe   *Nov 2022 - Present*

➔ Consistently ranking up, solving 1 room at a time, ~150 Rooms, 4 Learning Paths completed.

Top 25 In VishwaCTF'24, DEFCON Delhi CTF'24, Apporv CTF'24, EKOCTF'24   *Feb 2024 - Oct 2024*

➔ Participated in 15+ CTF competitions, consistently improving rankings.

EDUCATION

Master of Computer Applications (Cybersecurity)   2025 – 2027 | Remote

Amity University Online

Bachelor of Computer Applications   2022 – 2025 | Delhi, India

Guru Gobind Singh Indraprastha University, GPA - 8.9

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