Utkarsh Srivastava

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EDUCATION

VIT Bhopal University   Bhopal, M.P.
Bachelor of Technology in Computer Science Spec. in Cyber Security   *Sept. 2023 – Sept 2027*

Cathedral College   Jhansi, U.P.
Senior Secondary   *April 2007 - June 2022*

EXPERIENCE

Security Analyst Intern   September 2025 – Present
Technavors Security   *Pune, Maharashtra, Remote*

- Performed comprehensive **Web Application Pentesting** , identifying vulnerabilities and securing applications.
- Created detailed penetration testing reports with CVSS scoring and risk categorization with mitigation stratagies.
- Participated in the complete **Penetration Testing Lifecycle (PTES)** including reconnaissance, exploitation, post-exploitation, and structured reporting, gaining hands-on experience with professional security processes.

Security Technical Team Lead   December 2024 – Present
OWASP VIT Bhopal Student Chapter   *Bhopal, On-Site*

- Developed and maintained CTF challenges along with Web And OSINT challenges aligned with OWASP.
- Part of VIT Bhopal University's Official CTF Team - T.U.S.K. (The United Script Kiddies) with Overall rating: 294 with 112.535 points in 2025 COUNTRY PLACE: 22 at ctftime.org
- Provided technical support for web platforms along with the Technical Team, developing professional expertise in **Web Application Security**.

Application Security Researcher   August 2024– Present
NULL VIT Bhopal Student Chapter   *Bhopal, On-Site*

- Assisted in **threat modeling and risk assessment activities** based on NIST Cybersecurity Framework and ISO 27001 controls, aligning client applications with globally recognized security standards.
- Reviewed and analyzed **web server and API configurations** to detect security misconfigurations, implementing improvements that enhanced system resilience and reduced exposure to external threats.
- Prepared custom security awareness training content by targeting high-risk employee groups.

Software Developer Intern   April 2025 – May 2025
Kensium Solutions Pvt. Ltd.   *Hyderabad, Remote*

- Assisted in the design, development, and debugging of scalable software applications using Java, Python, and RESTful APIs assuring Security Configurations using Secure Coding Practices.
- Collaborated with senior developers to implement modular code, unit tests, and version control (Git/GitHub) for improved maintainability.
- Participated in Agile/Scrum meetings, working on sprint deliverables and tracking progress with Jira.

PROJECTS

VAAUL - Vulnerability-Assessment-Automation-Using-LLM | *Python*

- Developed a **CLI Tool** that automates the vulnerability assessment process by integrating **Nmap** with **LLMs** .
- Automated the parsing and analysis of Nmap scan results into structured vulnerability assessments.
- Automated and managed workflows using BBOT to enhance security scanning efficiency and coverage.

SafeLock | *Python, MySQL, UNIX Shell Script*

- Built a robust, user-centric encryption app designed to address modern privacy concerns by securely storing files and sharing access without compromising security.
- Implemented AES-256 encryption for data security, ensuring safe storage and retrieval of passwords.
- Reduced encryption/decryption latency by 25% through optimized cryptographic operations and multithreading.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, Bash
Frameworks: React, Node.js, Express.js, Flask, WordPress, FastAPI, RestAPI
Databases: SQL, PostgreSQL , Firebase, MongoDB
Tools: Wazuh, Wireshark, Burp Suite, Metasploit, nmap, Incident Response, TryHackMe, HackTheBox ,Git, Docker
CyberSecurity: Web Application Security, Large Language Models (LLMs), Security Automation, OWASP Top 10, Ethical Hacking, Penetration Testing, Vulnerability Assessment, Incident Response, Cybersecurity Fundamentals

ACHIEVEMENTS

AICTE (Govt. of India): Reported a critical security vulnerability in their internship portal, acknowledged and patched by their IT team.
DSCI(Data Security Council of India): Identified and disclosed a logic flaw in their course enrollment system, improving user authentication flows.
CyberShield Hackathon (CIIS 2025): Achieved 5th position in CyberShield Hackathon 2025 organized by MP Police by developing TrueSight, an AI-powered system for hoax bomb threat detection and analysis tool.
22nd Rank all over India as a CTF Team at ctftime.org: T.U.S.K Official Member with Overall rating place: 294 with 112.535 pts in 2025 Country place: 22 at ctftime.org
BlackHat CTF 2025 by BugCrowd: Ranked 37 of 1000 + teams all over the Globe competing with World-Wide Top Teams.
Kaspersky CTF 2025: Secured a top 50 position among 900+ competing teams in the Asia region at Kaspersky CTF 2025. Contributed by solving complex Web Exploitation, Reverse Engineering, and Forensics tasks, showcasing proficiency in vulnerability discovery, malware analysis, and forensic artifact recovery.
Shell n' Zen CTF:Achieved a top 3 rank among 200+ participants in Shell n' Zen CTF by solving advanced Web Exploitation, Reverse Engineering, and Digital Forensics challenges.
Tutedude: Identified and disclosed a logic flaw in their course enrollment system, improving user authentication flows.

CERTIFICATIONS

CNWPP (Certified Network & Website Pen Testing Professional)):Udemy
The Bits and Bytes of Computer : Google
Blockchain and its Applications : NPTEL by Govt. Of India
Jr. Penetration Tester: TryHackMe
Foundation Level Threat intelligence Analyst : arcX
Ethical Hacking by Zsecurity: Udemy