

JHALAK JAIN

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Summary

Motivated Computer Science student with a strong foundation in OOP, data structures, and algorithms. Passionate about threat hunting and secure software development, with experience enhancing security through detection, response, and scalable solutions in fast-paced environments.

Education

KIET Group Of Institutions(AKTU)

November 2022 - July 2026

Bachelor of Technology in Computer Science and Engineering(AI&ML)

CGPA : 8.1

Certificate

- **Cybersecurity Fundamentals Associate** | OPSWAT
- **Introduction to Critical Infrastructure Protection(ICIP)** | OPSWAT
- **CCNAv7 : Introduction To Network** | CISCO
- **Ethical Hacking Essentials** | EC-COUNCIL

Achievements

- **Grand Finalist: SIH'24** | Ministry of Education's Innovation Cell in collaboration with AICTE
- **1st Position: Innotech(Departmental Level)** | KIET Group Of Institutions
- **1st Position: Mind Maelstrom** | Bharati VidyaPeeth College Of Engineering

Work Experience

Tally Solutions Private Ltd.

July 2025 - August 2025

Cyber Security Intern

- Conducted penetration testing and vulnerability assessments on 15 company URLs and 5 infrastructure components.
- Drafted 10 new security policies and procedures, including access control and incident response plans, based on industry-standard compliance frameworks like PCI DSS, ISO 27001 and NIST Framework.
- Configured and deployed a demo firewall with 12 security rules and hardened a dedicated server by implementing 7 key security controls, showcasing hands-on technical skills in system defense.

CYBITUDE TECH LLP

March 2025 - April 2025

Cyber Security Intern - VAPT

- Conducted 50+ vulnerability and risk assessments on systems and applications using tools like Burp Suite, Nmap, and Kali Linux, delivering actionable recommendations that improved overall security posture by 30%.
- Collaborated with cross-functional teams to prioritize and remediate identified security issues, reducing vulnerability exposure by 40% through effective mitigation strategies.

Projects

Automated Subdomain Enumeration | Python, Nmap, Nuclei, Sub Finder, SSL, Recon-ng

April 2025

- Automated reconnaissance and scanning by integrating 5+ security tools in a Python script.

Integrated Steganography & Breach Monitoring Solution | HTML, CSS, JS, Flask

November 2024

- Designed and deployed a secure full-stack web platform (Flask, HTML/CSS/JS) featuring 3+ cybersecurity tools, including a custom LSB steganography engine, HaveIBeenPwned email breach checker, and 10+ JWT-secured RESTful API endpoints with HTTPS for encrypted data transmission.

IPv4 Malware Obfuscation and Deobfuscation | Struct Module(Python), Metasploit

September 2024

- Engineered a Python framework with IPv4 obfuscation to reduce Metasploit shellcode detection by 50%

Banking Application | SpringBoot MVC, MySQL

June 2024

- Built and deployed a Spring-based web app with Thymeleaf UI and RESTful API, enabling accurate CRUD operations and secure financial transactions on a MySQL database via Tomcat for scalable performance

Enterprise Security Lab | Windows Server 2022, Windows 10

April 2024

- Designed enterprise environment simulation with role-based access controls and incident response workflows for 5 users.

Advanced Persistent Threat Simulation | Socket(Python), PyAutoGUI

April 2024

- Created red team tooling for penetration testing and threat emulation with 100% data exfiltration efficiency

- Audio Steganography and Cryptography | *Wave, Crypto(python)*

February 2024

 - Created a script for audio steganography that securely embeds binary data using AES while maintaining audio quality.
- Image Data Concealment and Encryption | *Pwyt, NumPy, Crypto(python)*

January 2024

 - Developed a script that uses the LSB algorithm for steganography and AES encryption for 100% data security.
- HoneyPot | *Scapy Module (Python), IP route tables*

November 2023

 - Implemented custom SSH port and traffic filtering to reduce incoming traffic by 80%, protecting against DDoS/DoS attacks.

Technical Skills

Languages: Python, Java, C, Shell Scripting, SQL
CyberSecurity Tools: Metasploit, Frida-Server, Nmap, BurpSuite, Airmon-ng, Flare-Vm, Mimikatz, Nikto, dirb, Kerbrute
Web Technologies and Database Systems: REST API, Java Springboot, MYSQL
Security Concepts: Penetration Testing, Incident Response, Vulnerability Management, Threat Intelligence, SIEM, Log Analysis, Steganography, Cryptography
Core Concepts: Object-Oriented Programming (OOP), Data Structures, Algorithms, Complexity Analysis, Operating Systems
Other: Networking, Windows Server 2022, Debian-Based OS

Position Of Responsibilities

- Null — Ghaziabad Chapter

April 2024 – Present

Organizer

 - Conducted 2 null-meetups in college, hosted 150+ attendees and cyber security enthusiasts from university and industry, and built a strong network community with cyber security professionals.
- Cyber Peace Centre

February 2023 – Present

Coordinator

 - Mentored and guided a team of over 50+ junior cybersecurity enthusiasts and fostered their skills through hands-on workshops and collaborative project development.
- KIET Alumni Engagement Cell

April 2023 – Present

General Secretary

 - Organized and facilitated regular meet-ups for over 200+ alumni, connecting a team of 50+ students with a global network of industry professionals, therefore cultivating a thriving alumni community that fosters mentorship, networking, and professional development
- PR & IR Relations

January 2023 – Present

Organizer

 - Coordinated with 50+ students of various disciplines and organize annual cultural and sports Inter-college fest involving multiple stakeholders, including students, faculty, and external vendors.