Kunal Goyal

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Education

Class X : GD Goenka Public School : 92 % April 2019 – March 2020

Class XII : Mount Litera Zee School : 86.6 % April 2021 – May 2022

VIT Bhopal University, B.Tech in CSE (Spl.in Cyber Security and Digital Forensics) September 2022 – Present

- *CGPA: 8.08*

Technical Skills

Java Programming, HTML, CSS, MY SQL Database, Wireshark, NMAP, Bash, TCP/IP, DNS, Firewall, VPN's, Windows, MS Defender, Ethical Hacking, Threat Hunting.

Experience

Cyber Security Analyst Intern, The Red Users April 2025 – May 2025

- *Captured and analyzed network traffic using Wireshark to identify suspicious activity and understand protocols like TCP, UDP, and HTTP.*

Cyber Security Intern, Encoderspro June 2025 – July 2025

- *Learned bug bounty hunting, vulnerability assessment, and CTF challenges as a Cybersecurity Intern.*

Projects

Advanced Port Scannner Tool: *(Python, Socket Programming, Threading, Nmap, Network Reconnaissance, Vulnerability Assessment)*.

- *Developed a multithreaded Python-based port scanner for high-speed network reconnaissance and vulnerability identification.*
- *Socket programming, Nmap, and Threading. Banner grabbing and vulnerability mapping for detailed network profiling.*

Man-in-the-Middle (MITM) Attack Simulation Project *(Ettercap, Wireshark, Arpspoof, Kali Linux, Network Analysis, Cyber Attack Simulation)*

- *Simulated a Man-in-the-Middle(MITM) attack in a controlled lab environment to analyze risks in unsecured public Wi-Fi networks & Highlighted the importance of HTTPS, VPNs, and encryption as countermeasures to protect users from MITM threats.*
- *Employed tools such as Ettercap, Wireshark, and Arpspoof to intercept and inspect unencrypted HTTP traffic and extract sensitive data.*

Intrusion Detection System: *(Python, Scikit-learn, Pandas, Matplotlib, NSL-KDD, CIC-IDS-2017, Cyber Threat Detection)*

- *Utilized benchmark datasets NSL-KDD and CIC-IDS-2017 for model training and testing using Python.*
- *Built a real-time visualization dashboard to simulate SOC monitoring for anomaly detection.*
- *Improved detection accuracy and reduced false positives through data preprocessing, feature selection, and algorithm tuning.*

Certifications

Certified Ethical Hacker*(CEH) by EC Council,* ***AWS Cloud Practitioner*** *by AWS(CLF-C02),* ***Cyber Security Analyst*** *by IBM,* ***Devops Agile and Design thinking*** *by IBM.*