

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, AWS Cloud Computing, 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 Scanner Tool: (<i>Python, Socket Programming, Threading, Nmap, Network Reconnaissance, Vulnerability Assessment</i>)	
• 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 (<i>Ettercap, Wireshark, Arpspoof, Kali Linux, Network Analysis, Cyber Attack Simulation</i>)	
• 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.	

Intrusion Detection System: (<i>Python, Scikit-learn, Pandas, Matplotlib, NSL-KDD, CIC-IDS-2017, Cyber Threat Detection</i>)	
• Utilized benchmark datasets NSL-KDD and CIC-IDS-2017 for model training and testing using Python.	

• 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.	
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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.