Kunal Goyal

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Education

VIT Bhopal University, B.Tech in CSE (Spl.in Cyber Security and Digital Forensics)　　Sept 2022 – May 2026
- CGPA: 8.1/10

Skills

Languages: Java, Python Programming Language

Cyber Security: Penetration Testing, Ethical hacking, Vulnerability Assessment

Database Management: MY SQL Database

Cloud Computing: AWS Cloud (Foundational Level)

HTML and CSS

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.
- Utilized cybersecurity tools (e.g., Nmap, Snort) to support network monitoring and simulate attack scenarios.

Cyber Security Intern, Encoderspro　　June 2025 – July 2025
- Learned bug bounty hunting, vulnerability assessment, and CTF challenges as a Cybersecurity Intern.
- Developed skills in penetration testing and network security.

Projects

Intrusion Detection System Using Machine Learning
- Developed a machine learning-based system to detect cyber threats. Improved detection accuracy by using popular datasets like NSL-KDD and CIC-IDS-2017 to train the model.
- Tools Used: Python, Matplotlib/Seaborn, Pandas

Advanced Port Scannner Tool
- Built a multithreaded port scanner in Python for high-speed network analysis. The tool performed banner grabbing and other techniques for a comprehensive vulnerability assessment.
- Tools Used: Python, Socket, Threading, Nmap

Certificates

Certified Ethical hacker by EC Council: The EC-Council's Certified Ethical Hacker (CEH) certificate is highly relevant to my career in cybersecurity, serving as a globally recognized credential that validates my expertise in ethical hacking, security assessment, and threat mitigation. This certification aligns seamlessly with my hands-on experience using Wireshark for detailed network traffic analysis, identifying anomalies, and developing an Intrusion Detection System.

Skills: Scanning Reconnaissance, Vulnerability Analysis, System Hacking, Social Engineering

Devops, Agile Design Thinking by IBM: DevOps, Agile Design Thinking by IBM This IBM certification demonstrates my proficiency in modern software development methodologies. The course provided a solid foundation in DevOps principles, including CI/CD, which streamlines development workflows. I also gained skills in Agile methodologies for iterative project management and Design Thinking.

Skills: Agile Project Management, DevOps, Continuous Integration/Continuous Delivery (CI/CD), Design Thinking, and Collaborative Development.