

Kushagra Bhardwaj

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EDUCATION

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES , B.Tech in Computer Science Engineering (specializing in Cyber Security and Forensics)	Aug 2022 – Present
Silver Bells Public School, Shamli Senior Secondary School	Jul 2021 – Mar 2022 Percentage: 82.2
Holy Angel's Convent School, Muzaffarnagar Secondary School	Jun 2019 – Mar 2020 Percentage: 81

SKILLS

LANGUAGES: Python, C++, JavaScript

CYBER SEC: Detection Engineering, Log Analysis, Linux,
Malware Analysis, Application Security Assessments, network
scanning, log analysis, IDS/IPS

TOOLS & TECH: Git, GitHub, FastAPI, Node.js, MongoDB,
MySQL, Nmap, shodan, Wireshark

CS fundamental: Operating Systems, Computer Network, GRC
& Framework

PROJECTS

Real-time Packet Sniffer with Semi-IDS 🔄 | *Python, Scapy, Flask, JavaScript* June 2025 – July 2025

- Built a **real-time Python packet sniffer** using Scapy and Flask to capture, filter, and **log live network traffic**.
- **Integrated semi-IDS functionality to detect suspicious port activity (Telnet, RDP, SMB)** with **meme-based alert pop-ups** for enhanced visibility.
- Built a **full-stack web app** with **Flask, Socket.IO, and JS** for live traffic, logs, and **PCAP export**.

Secure Dashboard using behavioural analysis 🔄 | *Python, React, TypeScript, and Express.js* Jan 2025 – May 2025

- **Engineered** a behavior-based **threat detection** model that **flagged anomalous activity** with **88% accuracy**.
Built a real-time cybersecurity dashboard with React, TypeScript, threat visuals, and secure login.
- **Implemented detection** for **SQL injection, brute-force attacks, and session hijacking** to **enhance access control** for remote data centers.

GEOSCAN 🔄 | *C++, libpcap, Kali Linux* Aug 2024 – Dec 2024

- Developed a **C++ network scanner** using **libpcap** to detect devices on wireless networks
- Collected devices **IPs, MAC addresses, scanned standard ports (21,80,443, 8080, 53)** and extracted service version information.

INTERNSHIPS

CYBERSECURITY PROJECT INTERN | *IBM* Jun 2025 – Present

- Implemented **MFA** to enhance remote **data center access security**.
- **Configured SIEM and VPN** for **access logging** and **threat monitoring**.
- Conducted **research** and created documentation for **access control policies**.

CYBERSECURITY INTERN | *CodeAlpha* Jan 2024 – Mar 2024

- **Empowering users** to **detect and prevent phishing** through an awareness platform and **security best practices**.
- Manually **reviewing Python code** for **vulnerabilities** to ensure **reliable and secure development**.
- **Collaborating effectively** in teams to **streamline workflows** and understand **cloud infrastructure fundamentals**.

EXTRACURRICULARS & ACHIEVEMENTS

- Certificate of Participation – 🔄 **CTF UPES (2025)**
- SPR (Student Placement representative) – **(April 2025 – Present)**
- Secretary/president of Cyber sentinel – **(March 2025 – Present)**
- Events Head of Cyber sentinel – **(April 2024 – March 2025)**