

Sumit Kumar

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SKILLS

- **Languages:** C++, JavaScript, C, JAVA, Python, Network Security, Penetration testing
- **Frameworks:** HTML, CSS, Wireshark, FTK Imager
- **Tools/Platforms:** MySQL, Nmap
- **Soft Skills:** Problem-Solving Skills, Team Player, Adaptability

PROJECTS

Digital Evidence Extraction and Analysis System | *Linux, Wireshark, Zenmap, FTK Imager, Autopsy* November 2024

- Identify different types of digital evidence (volatile vs. non-volatile data). Perform disk imaging and memory forensics to preserve digital evidence.
- Analyze extracted evidence using forensic tools like Autopsy, FTK, and EnCase. Analyze extracted logs from firewalls, IDS and IPS.
- Examine malicious files using static and dynamic malware analysis techniques. Understand the role of digital forensics in legal proceedings.

Malware Analysis: Ransomware Encryption Simulation | *Linux, Wireshark, PEStudio* September 2024

- Conducted in-depth static and dynamic analysis of a custom ransomware prototype. Designed and implemented encryption techniques to simulate real-world ransomware behavior.
- Analyzed file system interactions, process injections, and persistence mechanisms. Developed countermeasures and mitigation strategies to prevent and detect encryption-based attacks.

E-Help: Electronics device selling and buying platform October 2022

- Implemented HTML, CSS, JAVASCRIPT framework to design the frontend of website.
- Customer can buy and sell new and old electronic devices and also can book service appointment. Hosted for 2 months and got 50 booking and 300 people visited the website.

CERTIFICATES

- DSA Course - Self-Paced DSA | GFG. September 2024
- Mastering Data Structures & Algorithms using C and C++ | UDEMY April 2024
- Introduction to Cyber Security Essentials | COURSERA January 2024
- The Bits and Bytes of Computer Networking | COURSERA October 2023
- Cybersecurity Essentials | IBM | Online June 2023
- CompTIA Linux+ XK0-005 | CYBRARY | Proctored January 2023

CO-CURRICULAR ACTIVITIES

- Participate in Capture the Flag Hackathon 2024 – SECUNEUS October 2024
- Attended workshop on Cyber Security | Hacky Security Pvt. Ltd | LPU August 2024
- Took part in CTF Hackathon | Encrypt Edge | LPU November 2023

EDUCATION

Lovely Professional University Punjab, India
• *Bachelor of Technology - Computer Science and Engineering;* Since August 2022

L.P SHAHI COLLEGE PATAHI Muzaffarpur, Bihar
• *Intermediate;* April 2020 - March 2022

ST JOSEPH SR SEC PANAPUR KANTI MUZAFFARPUR Muzaffarpur, Bihar
• *Matriculation;* April 2018 - March 2020