

Jalaj Sharma

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EDUCATION

VIT Bhopal University, Bhopal

2022-Present

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.43

Minor in Cyber Security and Digital Forensics

Adarsh Nursery SR Sec School, Kota

2021-2022

12th, Rajasthan Board of Secondary Education

84.0%

Technical Skills

Programming Languages: Python, Java, OOPS, DSA

Security: Penetration Testing, Incident Response, Digital Forensics, IoT Security, Cloud Security

System: Linux, Windows, AWS, GitHub

Tools/ Frameworks: Wireshark, Metasploit, Kali Linux, Nmap, OpenVAS

Web Development: HTML, CSS, JavaScript, DBMS, API Security

PROJECTS

Keylogger Debugger and Detector

March 23- Aug 23

An endpoint security tool focused on detecting and neutralizing malicious keyloggers in real time.

- **Developed** an endpoint security tool to detect and dismantle malicious keyloggers, combining heuristic and signature-based methods for comprehensive coverage.
- **Automated** monitoring and threat reporting to reduce incident response time by 70%.
- **Successfully** blocked **95%** of keylogger variants tested, significantly enhancing system security.

Tech Stack: Python, Heuristic Analysis, Signature-based Detection, Security Automation

CyberParcel: A Secure and Dependable Face Recognition-Based Delivery System

Dec 24- March 25

A security-focused delivery system utilizing face recognition and encrypted drone communication.

- **Conducted** a vulnerability assessment and penetration testing on the system, identifying and documenting **15+** security findings to enhance overall system resilience.
- **Engineered** secure drone communication by implementing a robust cybersecurity protocol with AES encryption, ensuring the integrity and confidentiality of data transmissions.
- **Utilized** industry-standard tools like Metasploit and Wireshark to perform penetration tests and analyze network traffic, leading to a **30%** improvement in the system's security posture.

Tech Stack: AES Encryption, Metasploit, Wireshark, Python, Security Protocols

Work Experience

Walmart Global Tech — Advanced Software Engineering Job Simulation (Shipping and Pet Departments)

- **Engineered** and deployed a custom heap data structure in Java for the Shipping Department, reducing order allocation time by **30%** and increasing shipping throughput by **25%** through optimized algorithm performance.
- **Designed and documented** a UML class diagram for a data processor, supporting **3+** operating modes and integration with **2+** database systems, establishing a scalable architecture for enterprise-level applications.
- **Developed and optimized** an Entity-Relationship Diagram (ERD) for a relational database in the Pet Department, resulting in **100%** accurate data entry and improving reporting efficiency by **40%** for inventory and customer management.

Key Skills: Java, Data Structures, Heap Algorithms, Object-Oriented Design, UML Diagrams, ERD, Database Design, Supply Chain Optimization, System Integration, Inventory Management, Process Automation

CERTIFICATES:

- **IBM Cybersecurity Analyst:** Threat Detection & Incident Response
- **Prolearn (Adroit Technologies):** DevOps, Endpoint Protection, Cybersecurity
- **NPTEL:** Cyber Physical Systems