

Mansi Sharma

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SKILLS

- **Languages:** C++, C, Java
- **Tools/Platforms:** Wireshark, Nmap, Ubuntu, GitHub
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management

PROJECTS

Image Encryption (Python)

Mar 2025

- Developed an image encryption and decryption tool in python using XOR cipher for secure image handling.
- Integrated PIL and NumPy libraries to perform efficient image processing and pixel-level data manipulation.
- Enabled user-defined key input ranging from 0 to 255 to allow customizable encryption strength and ensure accurate decryption.
- GitHub Repository Link: https://github.com/mansi1409/python/blob/main/image_encryption_tool.py

Event Authentication system (C++)

Jan 2025

- Developed an event authentication system in C++ with secure login, registration, and access control features.
- Created modules to manage event details, validate entry timings, and prevent unauthorized access for security.
- Designed a structured, menu-driven interface with input validation to guarantee a seamless and error-free user experience.
- GitHub Repository Link: https://github.com/mansi1409/python/blob/main/image_encryption_tool.py

RF-ID Scanner Project – ECE

Feb 2023

- Designed and implemented an RF-ID based sensor door system to provide secure access control to prevent unauthorized entry.
- Integrated an RF-ID scanner with a microcontroller to automate and control the door locking system for secure access.
- Enhanced security and system reliability by enabling real-time tag detection, ensuring prompt response for access control.

CERTIFICATIONS

- Cloud Computing (Nptel) Dec 2025
- Ethical Hacking essential (Coursera) Nov 2024
- Mastering Data Structure and algorithm (LPU) Jul 2024

Extra-CURRICULAR ACTIVITIES

- Attended the AR/VR Game Design Workshop at Cipher School exploring the fundamentals of virtual reality in game development Mar 2024
- Worked with Desha Seva Sansthan (NGO), as part of a summer training project on Traditional Art and Crafts. Contributed to promoting cultural heritage and supporting local artisans through hands-on activities June 2023

ACHIEVEMENTS

- **Gold Badge (C++)** Jan 2025
Demonstrated strong algorithmic skills in C++ by earning a Gold Badge on HackerRank
- **Gold Badge (Python)** Sep 2023
Earned a Gold Badge on HackerRank for solving Python programming challenges.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering Since August 2022
- **B.P.Inter College (Meerut)** Meerut, Uttar Pradesh
Intermediate May 2020– Jul 2021

