# Mridul Gharami

#### PROFESSIONAL SUMMARY

I am a second-year BSc Computer Science student seeking an internship to apply my knowledge and skills in cybersecurity and software development. I am eager to contribute to a dynamic team, enhance security measures, and support innovative development projects in a fast-paced environment.

**Email:** Address: South 24 Parganas, Phone:

+918972202991 gharamimridul@gmail.com West Bengal, 743336, India Portfolio:

https://mridul01154.github.io /MY web/

# **EDUCATION**

Bachelor of Science in Computer Science | 2023-2027 Surendranath College, University of Calcutta, Kolkata

 Relevant Coursework: Data Structures and Algorithms, Ethical Hacking and Cybersecurity, Network Security, Encryption. GPA: 7.5/10 (~75%)

Higher Secondary (10+2) (WBCHSE) | 2020-2022

J M Training, Joynagar, West Bengal

Stream: Science

#### **Technical Skills**

• Programming Languages:

C, Python, Java, Bash, Batch, PowerShell, HTML/CSS

Networking & Security:

Network Intrusion Detection (IDS), Packet Sniffing (Npcap, libpcap), Port Scanning Detection, SYN/UDP Flood Detection, Process Monitoring, Cryptography (AES, Fernet), SHA-256 Hashing

Operating Systems:

Windows System Programming (WinAPI, ToolHelp32), Linux, Shell Scripting, File Systems

Tools & Libraries:

Npcap, WinPcap, Tkinter (GUI), Git, Visual Studio, MinGW, Crypt32, ws2\_32, Vim

Other Skills:

CLI Tools Development, Multithreading (Windows Critical Sections), Secure File **Management, Indexing, Concurrency Control** 

## **Blockchain-Backed Messaging - Secure Messaging App**

09.04.2025

- Description: Built a secure P2P messaging system leveraging blockchain principles and TLS encryption. Messages are cryptographically signed and transmitted over SSL sockets. The system uses a simple immutable log-like structure to ensure message authenticity and integrity.
- Key Skills: Python, Socket Programming, SSL/TLS, Blockchain Concepts, Cybersecurity
- GitHub Repo: https://github.com/Mridul01154/Cyber/tree/main/BlockchainBacked%20Messaging
- Live Demo: https://mridul01154.github.io/MY web/

### **EncryptedVault - File Encryption and Secure Storage**

13.05.2025

- Description: Designed a graphical and command-line application for encrypting, decrypting, and securely managing sensitive files. Implemented password-based authentication and AES encryption using the Fernet protocol from the cryptography library. Integrated features like secure delete and master password
- Key Skills: Python, Cryptography, GUI (Tkinter), CLI Tools, File Security GitHub Repo:
- https://github.com/Mridul01154/Cyber/tree/main/EncryptedVault
- <u>Live Demo: https://mridul01154.github.io/MY\_web/</u>

## SENTINAL\_OS - Network Intrusion Detection and Process Monitoring System 05.06.2025

- Description: Developed a Windows-based Intrusion Detection System (IDS) and process monitor capable of real-time packet sniffing, blacklist-based IP and port monitoring, SYN/UDP flood detection, port scan detection, and malicious process detection (by name and SHA-256 hash). Integrated custom logging, configurable detection rules, and process monitoring with multi-threaded support.
- Key Skills: C, Windows API, Network Security, Packet Sniffing (Npcap), Process Monitoring, Multithreading, Hashing (SHA-256), System Programming.
- GitHub Repo: <a href="https://github.com/Mridul01154/Cyber/tree/main/Keylogger">https://github.com/Mridul01154/Cyber/tree/main/Keylogger</a>
- Live Demo: https://mridul01154.github.io/MY web/