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.

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Portfolio:
https://mridul01154.github.io/MY_web/

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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

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Technical Skills

- **Programming Languages:**

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

- **Frameworks:**

  NIST CSF, MITRE ATT&CK, ISO/IEC 27001, Zero Trust, CIS Controls, GDPR, PCI-DSS

- **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, Burp Suite, Metasploit, Nessus, John the Ripper, Nikto, Aircrack-ng, Hydra, Splunk, Snort.

- **Other Skills:**

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

PROJECTS

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 reset.
- Key Skills: Python, Cryptography, GUI (Tkinter), CLI Tools, File Security
- GitHub Repo: https://github.com/Mridul01154/Cyber/tree/main/EncryptedVault
- Live Demo: https://mridul01154.github.io/MY_web/

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: https://github.com/Mridul01154/Cyber/tree/main/Keylogger
- Live Demo: https://mridul01154.github.io/MY_web/

Certificates

- **IBM - Fundamentals of Encryption & Quantum-Safe Techniques**
  Completed: 2025
  Learned core encryption concepts including AES, RSA, and PKI, with an introduction to quantum-safe cryptography and its role in future-proofing data security.

- **Cisco - Introduction to Cybersecurity**
  Completed: 2025
  Gained foundational knowledge of cybersecurity principles, including threat types, attack vectors, security best practices, and the importance of confidentiality, integrity, and availability in digital environments.