

Sahil Ahamed

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SKILLS

- **Programming Languages:** C, C++, Assembly, Bash, Python
- **Frameworks:** NIST, CIA Triad, YARA Rules, FlareVM, REMnux
- **Tools/Platforms:** IDA, Ghidra, x64dbg, WinDbg, Wireshark
- **Soft Skills:** Analytical Thinking, Problem-Solving, Attention to Detail

INTERNSHIP

- **Tata Consultancy Services** Feb 2024 – Mar 2024
• *Cybersecurity Analyst (Virtual Internship)*
 - **About:** Performed threat analysis and risk assessment in simulated enterprise environment. Monitored systems for vulnerabilities, security gaps, and potential intrusions. Gained hands-on experience in enterprise-level security operations and incident response workflows.
 - **Core Areas:** Threat Analysis, Risk Assessment, Security Monitoring

PROJECTS

- **Entropy-Enhanced Fileless Malware Detection using Machine Learning:** Oct 2024 – May 2025
 - Designed and implemented a machine learning pipeline for detecting fileless malware via entropy-enhanced memory dump analysis.
 - Validated models with real-world datasets to improve detection accuracy and resilience against stealth techniques.
 - Tech:** Malware Analysis, Memory Forensics, Python, Machine Learning, Computer Vision
- **Instant Malware Analysis Lab:** Mar 2025
 - Built a pre-configured malware analysis lab with REMnux and Windows 10 VMs for secure, efficient research.
 - Integrated essential tools, isolated networks, and pre-loaded malware samples to streamline analyst workflows.
 - Tech:** Virtualization, Network Virtualization, Malware Analysis, REMnux, Windows 10

CERTIFICATES

- Google Cybersecurity Professional by Google. Jul 2024
- Ethical Hacker by Cisco. Mar 2024
- Ethical Hacking Essentials (EHE) by EC-Council. Jan 2024
- Geo-data Sharing and Cyber Security by ISRO. Dec 2023

ACHIEVEMENTS

- **Published research paper in Springer:**
Published a Scopus indexed research paper on entropy-enhanced fileless malware detection using ML in Springer proceedings.
- **Ranked in Dean's top 5% students at University:**
Graduated with a CGPA of 9.56, demonstrating strong academic performance and technical proficiency in cybersecurity and computer applications.
- **Among top 5% in EC-Council's Hackerverse (CTF):**
Secured global rank of 174 out of 3,797 participants in EC-Council's 9 day CTF focused on malware analysis, reverse engineering, OSINT, and cryptography.
- **Among top 4% in TryHackMe Hackfinitiy Battle (CTF):**
Achieved rank 849 out of 26,960 participants in a 3 day CTF covering reverse engineering, game hacking, OSINT, and cryptography.
- **Among top 10 in Coding Ninjas, LPU Hackathon:**
Led development of Blockfy, a blockchain based data verification platform with SQL server backend and smart contract integration, enhancing skills in blockchain development, cybersecurity, and rapid prototyping.

EDUCATION

- **Lovely Professional University** Punjab, India
• *Master of Computer Applications (Hons.) Cybersecurity* Aug 2025 - Present
- **Adamas University** West Bengal, India
• *Bachelor of Computer Applications* Aug 2022 - May 2025
CGPA: 9.56/10
- **LMET International School** West Bengal, India
• *Higher Secondary* Mar 2021 - Feb 2022
Percentage: 77.46%