

Sahil Ahamed

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SKILLS

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- **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

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- **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

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- **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

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- 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

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- **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 Hackfinity 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 Blockyfy, a blockchain based data verification platform with SQL server backend and smart contract integration, enhancing skills in blockchain development, cybersecurity, and rapid prototyping.

EDUCATION

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