

HARI SHANKAR BAKKAMANTHULA

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CYBER SECURITY STUDENT

Cybersecurity enthusiast dedicated to fortifying digital landscapes through expertise in Malware Analysis, VAPT (Vulnerability Assessment and Penetration Testing), and firewall management. Adept at identifying and mitigating security threats to ensure the confidentiality, integrity, and resilience of sensitive data. Passionate about staying ahead of emerging cyber threats, continuously refining skills, and applying industry-leading best practices to safeguard information systems. A detail-oriented problem solver committed to building secure and robust digital environments.

STRENGTHS AND EXPERTISE

- Soft Skills: Problem-Solving, Critical Thinking, Team Leadership, Communication, Collaboration
 - Programming Languages: Python, Java, C, SQL, Bash Scripting
 - Cybersecurity Skills & Tools: Network Security, VAPT, Malware Analysis, Threat Analysis, Incident Response, Phishing Detection, Metasploit, Burp Suite, Nmap, Wireshark,
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PROFESSIONAL EXPERIENCE

Cyber Security Intern

Tinkering Hub, Parul University

December 2024 - Present

In this internship, I am actively involved in developing security tools to enhance digital protection. My primary focus is on building a Windows-based Antivirus Malware Scanner that detects and mitigates malicious threats. Additionally, I am designing a Phishing Mail Detector Browser Extension to identify and prevent phishing attacks. This hands-on experience is sharpening my skills in malware analysis, threat detection, and cybersecurity tool development, contributing to the advancement of proactive security measures.

Accomplishments:

- Spearheading the development of an Antivirus Malware Scanner for Windows, leveraging advanced malware detection techniques.
 - Designing and implementing a Phishing Mail Detector Browser Extension to identify and prevent phishing attempts, enhancing email security.
 - Gaining hands-on experience in malware analysis, threat detection, and cybersecurity tool development.
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Cyber Security Intern

SkillVertex

December 2024 - January 2025

During this project-led internship, I worked on network security, cryptography, risk management, and threat analysis. Through a combination of discussions, assignments, and hands-on projects, I gained practical experience in identifying vulnerabilities, strengthening cybersecurity defenses, and applying forensic techniques. This internship enhanced my ability to analyze and mitigate cyber threats while reinforcing industry best practices.

Accomplishments:

- Conducted network security assessments, cryptographic implementations, and risk management strategies.
- Engaged in project-based learning, applying cybersecurity principles to real-world security challenges.
- Strengthened expertise in threat analysis, vulnerability exploitation, and digital forensics through hands-on assignments.

CERTIFICATIONS

- Google Cloud Cybersecurity Professional Certificate – Google Cloud
- C3SA Premium Edition – Cyber Warfare Labs
- Third Place in CTF HackArise – The Hackers Meetup x Parul University
- Cyber Security Training Program – SkillVertex
- Ethical Hacking Essentials – EC-Council
- Cyber Forensic and Ethical Hacking – CYFOEDU
- AWS Cloud Practitioner Essentials – AWS Training and Certification
- Kali Linux – Chegg
- Introduction to Python – Security Blue Team
- Introduction to OSINT – Security Blue Team
- Cybersecurity Fundamentals – IBM SkillsBuild
- Introduction to Cybersecurity – Cisco Networking Academy
- Attacking the Cloud with RedCloud OS – Cyber Warfare Labs
- Hands-on Cybersecurity Workshop and CTF – Cyber Unbound
- Online Skilling Course on Cybersecurity – Tech Mahindra Foundation x Skill India Digital Hub
- Branlic Soft Skills Workshop – Branlic
- Third Place in CTF HackArise – Organized by The Hackers Meetup x Parul University.

EDUCATION

B.Tech in Computer Science Engineering – Specialization in Cybersecurity

Parul University,Vadodara | 2022-Expected Graduation: 2026

Intermediate-MPC(11th&12th)

Sri Sarswathi Junior College,Ongole | 2020-2022

High School - AP State Board(upto 10th)

Sri Rama Krishna E.M High School,Ongole|2010-2020

PROJECTS

Antivirus Malware Scanner (In Progress)

Developing a comprehensive Windows-based malware scanner to detect and mitigate threats effectively

Phishing Mail Detector Browser Extension (In Progress)

Building a browser extension to identify phishing attempts and safeguard users from malicious emails.

Web Based Malware Scanner(ransomewatch.online)(In Progress)

Developing a signature-based online malware scanner to detect malicious files efficiently.

Caesar Cipher Encryption Tool

Designed and implemented a tool for secure message encryption and decryption using the Caesar cipher technique.

Image Encryption Tool

Built a tool leveraging pixel manipulation to ensure the security and confidentiality of image data.

Password Strength Analyzer

Developed a tool to evaluate and improve password complexity and strength for better security practices.

Network Packet Monitoring Tool

Created a tool for capturing and analyzing network traffic to detect anomalies and secure digital environments.
