Bakkamanthula Hari Shankar

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SUMMARY

As a passionate and dedicated cybersecurity enthusiast, I am pursuing a B.Tech in Computer Science and Engineering with a specialization in Cybersecurity. With hands-on experience in vulnerability assessment, penetration testing (VAPT), network security, and digital forensics, I aim to contribute to strengthening organizational security by identifying and mitigating cyber threats. My expertise in ethical hacking, cloud security, and incident response aligns with the evolving threat landscape, making me a valuable asset to any security team. I seek opportunities where I can apply my skills, continuously learn, and enhance security measures while growing professionally within a dynamic cybersecurity environment.

SKILLS

Tools: Nmap, Nessus, Metasploit, Burp Suite, Wireshark, Aircrack-ng, John the Ripper, OWASP ZAP, Hydra, Hashcat, AWS, SQLmap, Crunch, Ettercap, Beef-XSS

- **Programming Languages:**Python,Java,C,SQL,HTML,CSS,Javascript
- **Security Areas:**Vulnerability Assessment and Penetration Testing (VAPT) – Web & Network,Incident Response,Digital Forensics,Reverse Engineering,Malware Analysis

Operating Systems: Windows, Kali Linux, RedCloud OS, Ubuntu, Parrot OS, Pop OS

EDUCATION

B.Tech. - CSE - Cyber Security - PIET

Parul University • Vadodara, Gujarat • 2026 • 6.59 / 10

12th

Sri Saraswathi Jr College, Ongole • 2022

- 12th | BIEAP | Percentage: 73.20 / 100.

10th

Sri Rama Krishna EM High School, Ongole • 2020

- 10th | BSEAP | Percentage: 89 / 100.

EXPERIENCE

Cyber Security Intern

Tinkering Hub **December 2024 - Present**

- Developing a **Phishing Mail URL Detection Browser Extension**.
- Working on cybersecurity-related projects and research.
- Expanding knowledge in **network security, malware analysis, and ethical hacking**.

Cyber Security Intern

Skillvertex | Cyber Security **December 2024 - January 2025**

- Learned **cybersecurity fundamentals** and best practices.
- Worked on a **VAPT project**, identifying and documenting vulnerabilities.

PROJECT

Phishing Mail Detector Browser Extension

Tinkering Hub, Parul University • github.com/harishankar3618/phishing_url_and_email_scanner

- Phishing URL and Email Scanner is a web browser extension designed to enhance online security by detecting and alerting users about phishing URLs and suspicious emails. The tool integrates the VirusTotal API to analyze URLs in real time, warning users if they visit a potentially malicious website.Additionally, the extension features an email phishing analyzer that scans emails upon opening, checking for fraudulent links, deceptive sender addresses, and phishing patterns. If a threat is detected, the user receives a real-time notification to prevent credential theft or financial fraud.By providing an automated security layer, this project helps individuals and organizations stay protected against phishing attacks.

Ransomewatch-Malware Detection System

PARUL INSTITUTE OF ENGG. AND TECH., LIMDA, VAGHODIA 037 • ransomewatch.online/

- Ransomware attacks pose a significant threat to organizations and individuals worldwide. This project presents a web-based ransomware detection system that analyzes uploaded files using the Malware Bazaar API to match hashes of known malware. If a file is identified as malware, the system sends an email notification to the user, alerting them of potential threats.The platform is hosted on a Microsoft Azure Virtual Machine (VM) and deployed on a GoDaddy-acquired domain (ransomewatch.online) to ensure accessibility and reliability. This project aims to enhance malware detection capabilities through real-time alerts, a user-friendly web interface, and robust security mechanisms.By leveraging cloud infrastructure and API-based malware scanning, this system provides an effective solution to counter ransomware threats proactively.Ransomware attacks pose a significant threat to organizations and individuals worldwide. This project presents a web-based ransomware detection system that analyzes uploaded files using the Malware Bazaar API to match hashes of known malware. If a file is identified as malware, the system sends an email notification to the user, alerting them of potential threats. The platform is hosted on a Microsoft Azure Virtual Machine (VM) and deployed on a GoDaddy-acquired domain (ransomewatch.online) to ensure accessibility and reliability. This project aims to enhance malware detection capabilities through real-time alerts, a user-friendly web interface, and robust security mechanisms. By leveraging cloud infrastructure and API-based malware scanning, this system provides an effective solution to counter ransomware threats proactively.

Caesar-Cipher-Encryption-and-Decryption-Tool

github.com/harishankar3618/Caesar-Cipher-Encryption-and-Decryption-Tool

- The Caesar Cipher Encryption and Decryption Tool is a robust application designed to encrypt and decrypt messages using the classical Caesar cipher algorithm. Developed as part of a cybersecurity internship at Prodigy Infotech, this tool allows users to secure their communications by shifting the characters of the plaintext by a fixed number of positions down or up the alphabet.

Image Encryption and Decryption Tool

github.com/harishankar3618/Image-Encryption-and-Decryption

- The Image Encryption and Decryption Tool is an advanced application designed to secure images through encryption, ensuring that visual data can be safely stored and transmitted. Developed during a cybersecurity internship at Prodigy Infotech, this project addresses the growing need for protecting sensitive visual information in an increasingly digital world.

Packet Sniffer

github.com/harishankar3618/Packet-Sniffer

- The Packet Sniffer is a sophisticated tool designed for monitoring and analyzing network traffic in real-time. Developed during a cybersecurity internship at Prodigy Infotech, this project aims to provide deep insights into network behavior, helping users detect anomalies, troubleshoot issues, and enhance overall network security.

Password Strength Checker

github.com/harishankar3618/Password-Strength-Checker

- The Password Strength Checker is a sophisticated tool designed to evaluate the strength of passwords and provide users with actionable feedback to enhance their password security. Developed during a cybersecurity internship at Prodigy Infotech, this project aims to educate users on the importance of strong passwords and assist them in creating secure passwords to protect their online accounts and sensitive information.

CERTIFICATIONS

Introduction to OSINT

Security Blue Team • 2024

- Covers open-source intelligence (OSINT) techniques for cybersecurity investigations.

Certificate of Achievement for C3SA Premium Edition

Cyber War Labs • 2024

- Validates your skills in cybersecurity, ethical hacking, and penetration testing

Introduction to Cybersecurity Badge

Cisco • 2024

- Provides foundational knowledge in cybersecurity concepts, threats, and risk management.

Cybersecurity Fundamentals Badge

IBM SkillsBuild • 2024

- Covers essential cybersecurity principles, helping build a strong foundation in security practices.

Kali Linux Certification

Chegg Skills • 2024

- Validates expertise in using Kali Linux for penetration testing, vulnerability assessment, and security research.

Getting Started with AWS Cloud Essentials

AWS • 2024

- Covers core cloud computing concepts and AWS security best practices.

Google Cloud Cybersecurity Professional Certificate

Google Cloud • 2024

- Focuses on cloud security, incident response, and securing cloud environments.

OSINT Fundamentals

Security Blue Team • 2024

- Covers open-source intelligence (OSINT) techniques for cybersecurity investigations.

Introduction to Critical Infrastructure Protection

OPSWAT • 2024

- Focuses on securing critical infrastructure against cyber threats and Vulnerabilities

Cyber Security Training Program

SkillVertex • 2024

- Covers cybersecurity fundamentals, threat intelligence, and security operations

Ethical Hacking Essentials (EHE)

EC-Council • 2022

- Introduces fundamental ethical hacking concepts and security assessment methodologies.

Introduction to Python

Security Blue Team • 2021

- Provides foundational knowledge of Python for cybersecurity applications.

COURSEWORK

Ethical Hacking Course – Skill India | NSDC

Scholiverse Educare Private Limited (NSDC) • 2024 • web security,Cryptography,Information Security,Penetration Testing

- Government-certified training that covers fundamental cybersecurity concepts, cryptographic techniques, web security, and ethical hacking methodologies..

Cyber Forensic and Ethical Hacking

Cyfoedu • 2024 • Cyber Forensics Ethical Hacking Digital Investigation

- Successfully completed training on cyber forensics and ethical hacking, covering digital evidence analysis, forensic methodologies, and penetration testing techniques.

Attacking the Cloud with RedCloud OS – Workshop

Cyberwarfare Labs • 2024 • Cloud Security,Redcloud OS

- Successfully attended the "Attacking the Cloud with RedCloud OS" workshop organized by Cyberwarfare Labs. The session covered
- cloud security vulnerabilities, red teaming tactics in cloud environments, and practical exploitation techniques using RedCloud OS.

Cybersecurity Workshop & CTF

Cyber Unbound • 2024 • Attack Simulation,Capture The Flag (CTF),Network Security,web security

- An interactive cybersecurity workshop focusing on real-world attack scenarios. Successfully participated in a CTF challenge, applying penetration testing techniques and cryptographic analysis.

Null Vadodara Seminar – Cybersecurity & Hacking Insights

Parul University • 2024 • Active Directory Security,Android Reverse Engineering,Bug Bounty,Hardware Hacking

- Attended an insightful seminar organized by the Null Vadodara community at Parul University. The event explored advanced cybersecurity topics such as Active Directory exploitation, Android application reverse engineering, bug bounty methodologies, and hardware hacking techniques. This seminar provided a valuable learning experience, offering deep insights from industry experts and practical knowledge about emerging security threats and mitigation techniques.

Cyber Security training program

SkillVertex • 2024 • Network Security, Cryptography ,threat analysis , risk management

- Successfully completed a Cyber Security training program covering network security, cryptographic techniques, threat intelligence, and risk management strategies. Developed a strong understanding of cyber threats, security controls, and ethical hacking methodologies

Brainic Soft Skills Workshop

Brainic • 2024 • Communication Skills,Leadership,Teamwork,Problem Solving

- A three-day(Nov 1,6,7) professional development workshop aimed at improving communication, leadership, and interpersonal skills for career growth.

Third Place in CTF HackArise

The Hackers Meetup x Parul University • 2024

- Demonstrates practical skills in Capture The Flag (CTF) cybersecurity competitions.

Ethical Hacking Training

Internshala trainings • 2024

- Covers ethical hacking, vulnerability assessment, and security automation.