Kiran Kumar K

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PROFESSIONAL SUMMARY

Cybersecurity researcher and ethical hacker with expertise in penetration testing, vulnerability assessment, and network security. Adept at identifying, analyzing, and mitigating security vulnerabilities to enhance system resilience. Experienced in hands-on security testing, ethical hacking methodologies, and threat intelligence. Seeking a cybersecurity-focused role to leverage technical skills and research capabilities in securing digital infrastructures.

EDUCATION

Bachelor of Engineering in Computer Science
Alva's Institute of Engineering and Technology | Expected 2025

Diploma in Mechanical Engineering
S J V P Polytechnic College, Harihar | 2022

CERTIFICATIONS

- TechA Network Hacking Prevention Foundation Certification – Infosys-Springboard
- Network Security – Infosys-Springboard
- Hands-On Network Scanning with Nmap for Network Security – Infosys-Springboard
- Advanced Wireless Hacking – Infosys-Springboard
- Cryptography in IT Security & Hacking – Infosys-Springboard
- Foundations of Cybersecurity – Coursera
- Intro to Bug Bounty Hunting & Web Application Hacking – Udemy

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TECHNICAL SKILLS

- **Penetration Testing & Security Assessment:** Web Application Hacking, Vulnerability Assessment (VAPT), Network Security
- **Threat Intelligence & Incident Response:** SIEM Tools, Log Analysis, Security Hardening
- **Offensive Security Tools:** Metasploit, Nmap, Burp Suite, SQL Injection, AdminRecon
- **Programming & Scripting:** Python, Bash, SQL, C, Java

- **System & Network Security:** Firewall Configuration, IDS/IPS, Packet Inspection, Secure Authentication
- **Cloud & DevSecOps:** Google Cloud Security, AWS Security, CI/CD Pipeline Security
- **Linux Security & Hardening:** Kali Linux, Ubuntu, Secure Boot, Privilege Escalation Prevention
- **Cryptography & Data Protection:** Secure Hashing Algorithms (SHA, AES), OpenSSL
- **Automation & Infrastructure Security:** Shell Scripting, Server Hardening, Security Patch Management

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PROFESSIONAL EXPERIENCE

Cybersecurity Intern

Information Security Office, Indian Institute of Science (IISc), Bangalore
March 2025 - June 2025

- Conducted security assessments, penetration testing, and risk mitigation strategies.
- Assisted in identifying and remediating security vulnerabilities within the institution's network.
- Collaborated with cybersecurity teams on security audits, log analysis, and real-time threat detection.

Cybersecurity Researcher (VAPT & Bug Bounty)

Self-Employed | **January 2025 - Present**

- Disclosed security vulnerabilities in multiple high-profile platforms, including:
    - **NASA** – Reported bulk directory listing vulnerability (August 2024).
    - **hrylabour.gov.in** – Discovered and assisted in fixing XSS vulnerability (June 2024).
    - **patanjaliayurved.net** – Reported high-severity XSS vulnerability (July 2024).
    - **Stanford University** – Identified AWS security misconfiguration leading to sensitive data exposure (July 2024).

Cybersecurity Intern

Edwin's Lab | **2023**

- Assisted in penetration testing, security analysis, and vulnerability research.
- Worked on real-world bug bounty programs, security patching, and ethical hacking initiatives.

PROJECTS

- **LogAnalyzer-Pro** – Developed a Python-based tool to analyze network logs, detect anomalies, and visualize security threats.
- **Brouteforce** – Designed an advanced brute-force attack tool for security testing.
- **Admin Recon** – Created a reconnaissance tool for penetration testers.

- **Docker WordPress Setup** – Built a secure, containerized WordPress deployment using Docker.
- **Linux Command Maestro** – Developed an interactive CLI-based cybersecurity game for Linux mastery.
- **Poweroff Script** – Automated secure system shutdown based on user-defined security policies.
- **Linux Mount Home** – Automated secure external storage mounting in Linux environments.

EXTRACURRICULAR ACTIVITIES

- Conducted security awareness workshops on ethical hacking and penetration testing.
- Participated in national and international cybersecurity competitions, including CTF challenges.
- Volunteered in community-driven cybersecurity initiatives and digital safety programs.

HOBBIES & INTERESTS

- Cybersecurity research and threat analysis
- Developing penetration testing tools and security automation scripts
- Participating in ethical hacking challenges and open-source security projects

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