KIRAN KUMAR CH

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EDUCATION

Bachelor of Technology in Computer Science Engineering with Cyber Security and Digital Forensics
VIT Bhopal University, Sehore | CGPA: 8.32   ***September 2022 – Present***

Higher Secondary Education (12th)
Bharani Park Higher Secondary School, Karur, Tamil Nadu / *Percentage: 72.80%*   ***May 2022***

Secondary Education (10th)
Bharani Park Higher Secondary School, Karur, Tamil Nadu / *Percentage: 70.40%*   ***May 2020***

PROFESSIONAL EXPERIENCE

Cyber Security Intern [[Link](#)]
The Red Users | February 2025 – March 2025

- **Network Security & Threat Analysis:** Researched malware (viruses, worms, trojans) and phishing attacks, implemented firewall configurations (Windows Defender), and secured networks using WPA2/WPA3 encryption.
- **Traffic Analysis with Wireshark:** Captured and analyzed HTTP, DNS, and TCP/IP traffic to detect anomalies and potential security threats.
- **Web Application Security Testing:** Used OWASP ZAP to scan and assess vulnerabilities in WebGoat, identifying and exploiting SQL Injection, Cross-Site Scripting (XSS), and CSRF vulnerabilities.
- **Penetration Testing & Exploitation:** Conducted manual web application testing, injecting SQL payloads and modifying web requests to assess security risks.
- **Security Documentation & Mitigation:** Created detailed reports, documenting findings, exploitation steps, and preventive strategies to mitigate security vulnerabilities.
- **Tools & Technologies:** Wireshark, Windows Defender Firewall, OWASP ZAP, WebGoat, SQL Injection, XSS, CSRF, WPA2/WPA3 Encryption.

Leadership & Volunteering Experience
National Service Scheme (NSS), VIT Bhopal

- Led community service and outreach programs, coordinated with NGOs, and managed event logistics (Oct 2022 – Nov 2024)

UNIVERSITY PROJECTS

Malware Analysis Signature-Based Using Static and Dynamic Analysis [[Link](#)]

- **Description:** Conducted an in-depth analysis of a specific malware sample to examine its behavior, capabilities, and impact on systems and networks using **signature-based, static, and dynamic analysis** techniques.
- **Project Outcome:** Provided detailed insights into the malware's characteristics, attack vectors, and potential security risks, aiding in threat detection and mitigation.
- **Role:** Led research efforts, performed **static analysis**, and authored comprehensive technical documentation.
- **Research Contribution:** Authored a **detailed research paper** outlining methodologies, findings, and cybersecurity implications, contributing valuable insights to the field.

Streamline Malware Analysis Using Ghidra [Link]

• **Description:** Conducted advanced malware analysis using Ghidra for reverse engineering. Key focus areas included symbolic analysis of strings, identification of vulnerable functions, analysis of malicious symbols in the symbol table, and memory map examination. Developed and implemented custom scripts to automate and enhance analysis efficiency.
• **Project Outcome:** Successfully automated malware analysis workflows within Ghidra, significantly improving efficiency and vulnerability detection.
• **Future Scope:** Further integration of advanced automation techniques to streamline malware analysis within the Ghidra framework.
• **Tools & Technologies:** Ghidra, C++, Custom Scripting
• **Research Contribution:** Co-authored a detailed research paper exploring novel techniques for malware analysis using Ghidra, presenting key findings and insights.

SIDE PROJECTS

Anadhanam App (Bhojan Seva)

- **Description**: Developed an app facilitating Annadhanam scheduling and donations with features like real-time meal availability, notifications, and tax receipt generation.
- **Features**: Login system, feedback section, photo gallery, payment page, and 24/7 chat support.
- **Tools and Technologies**: Android Studio, Firebase.

Farm Easy App

- **Description**: Developed a platform to connect small-scale farmers with buyers, streamlining produce sales and ensuring fair pricing.
- **Problem Statement (SIH)**: Farmers face challenges in selling their produce directly to buyers due to middlemen, lack of market access, and logistical barriers. FarmEasy addresses these challenges by providing a seamless platform for direct transactions and integrated logistics support.
- **Features**: Farmer listings, buyer inquiries, logistics support, secure transactions, and notifications for delivery updates.
- **Tools and Technologies**: Android Studio, Kotlin, Firebase.

Guide Link – A Tour Guide App

- **Description**: Designed a platform connecting tourists and guides with personalized itineraries, real-time availability, and dynamic pricing.
- **Features**: In-app chat, role-switching (tourist/guide), payment integration, and feedback system.
- **Tools and Technologies**: Flutter, Firebase, Android Studio.

COMPETITIVE CODING

- **Leetcode:** Actively participating in a **360-day coding challenge.**
- **GeeksforGeeks**: Currently working on a **160-day coding challenge**.

ADDITIONAL

Languages: Java, Python, C++, Kotlin
Web/Mobile: HTML, CSS, JavaScript, Flutter, Android Studio, Firebase
Cloud/Tools: AWS (EC2, S3, IAM), Ghidra, Wireshark, OWASP ZAP, Git
Areas: DSA, OOP, System Design Basics
Certificates: IBM Cyber Security Analyst**,** Oracle Foundations Associate, Cisco Junior Cybersecurity Analyst, NPTEL **[Link]**

Hackathon Experience: Skill India Hackathon 2024, Built an urban mobility solution at Namma Yatri Hackathon

Language: English, Telugu, Tamil, Hindi, French