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: 8.36   ***(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
• Analyzed malware, phishing, and secured networks (WPA2/WPA3, Windows Defender).
• Detected threats via Wireshark traffic analysis.
• Tested web apps (OWASP ZAP, WebGoat); exploited SQLi, XSS, CSRF.

UNIVERSITY PROJECTS

Malware Analysis Signature-Based Using Static and Dynamic Analysis [[Link](#)]   **(October 2023)**

Description: Analyzed malware behavior, attack vectors, and risks using signature-based, static, and dynamic methods. Delivered insights for threat detection and mitigation; authored technical documentation and research paper.
Role: Research Paper, Documentation, Static Threat Detection.

Streamline Malware Analysis Using Ghidra [[Link](#)]   **(May 2024)**
Description: Performed reverse engineering, symbolic/string analysis, and memory map inspection using **Ghidra**.
Highlights: Automated analysis with custom **C++ scripts**, boosting efficiency and vulnerability detection.
Co-authored research paper on novel **Ghidra-based** malware analysis techniques.
Role: Research Paper, Documentation, Memory Map, Symbol Tree, Scripting.

Health Oracle [[Link](#)]   **(Ongoing)**
Description: Developing Health Oracle, an AI-driven mobile application that analyzes data from wearable devices to predict potential diseases and provide personalized health assistance.
Highlights: Leveraged machine learning models for disease prediction and AI for tailored user experiences.
Technology: React Native, FastAPI, Machine Learning Models, AI for Personalized Experiences.
Role: App Development, API Integration (ML and App).
Tools: React Native, FastAPI.

SIDE PROJECTS

Anadhanam App (Bhojan Seva)
• **Description:** Built an app for meal donations with real-time availability, notifications, and tax receipt generation.
• **Highlights:** Included login, feedback, gallery, payments, and 24/7 chat support.
• **Technology:** Android Studio, Firebase.

Farm Easy App (SIH Problem Statement)
• **Description:** Built a platform connecting farmers and buyers for direct, fair produce sales with logistics support.
• **Features:** Listings, inquiries, secure transactions, delivery updates.
• **Technologies:** Android Studio, Kotlin, Firebase.

Guide Link – A Tour Guide App   **(Ongoing)**
• **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**.

SKILLS & INTERESTS

Languages: Java, Python, C++, Kotlin
Web/Mobile: HTML, CSS, JavaScript, Flutter, Android Studio, Firebase
Cloud/Tools: AWS (EC2, S3, IAM), Ghidra, Wireshark, OWASP ZAP, MongoB
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