KIRAN KUMAR CH

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Professional Summary

Aspiring Cyber Security student specializing in threat analysis, vulnerability assessment, and secure system design. Skilled in using cybersecurity tools including Wireshark, Nmap, Metasploit, and Burp Suite, with hands-on experience in network security, incident response, and cloud services on (AWS). Also proficient in AI integration, web development, and IoT-based solutions, delivering projects that combine strong security with innovative functionality. Proficient in Java and Python, with a proven record of executing academic and real-world projects across security and emerging technologies.

Education

VIT Bhopal University, Bhopal, Madhya Pradesh, India
 B.Tech Computer Science Engineering (Cyber Security and Digital Forensics)   Expected May 2026
Cumulative GPA: 8.41

Skills

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

Professional Experience

Cyber Security Intern [**Link**]   Online
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.

Projects

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

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 (Python) [**Link**]
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 (Flutter, FastAPI, ML Models) [**Link**]
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.

Farm Easy App (SIH Problem Statement) (Android Studio)
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 & Technologies: Android Studio, Kotlin, Firebase.

Activities

National Cadet Corps (NCC) – Member   VIT Bhopal | October 2023 – May 2024

Demonstrated discipline, leadership, and teamwork through participation in drills, camps, and community service initiatives.