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 (Python)
- Analyzed malware behavior using static, dynamic, and signature-based analysis techniques to identify attack vectors and risk levels.
- Delivered actionable threat detection and mitigation strategies, with supporting documentation and a co-authored research paper.

Streamlined Malware Analysis with Ghidra (Python, C++)
- Utilized reverse engineering, symbolic analysis, and memory mapping via Ghidra for malware inspection.
- Developed custom C++ scripts to automate repetitive analysis tasks, enhancing vulnerability detection efficiency.
- Contributed to a research paper on novel Ghidra-based malware analysis methods.

Health Oracle – AI-Driven Health Assistant (React Native, FastAPI, ML)
- Designed a mobile app that integrates wearable device data with ML models for disease prediction and personalized health insights.
- Built APIs with FastAPI for secure integration between AI models and the mobile application.

FarmEasy – Smart Farmer–Buyer Platform (Android Studio, Kotlin, Firebase)
- Developed a farmer-to-consumer marketplace addressing challenges of middlemen, logistics, and fair pricing.
- Integrated farmer listings, buyer inquiries, secure transactions, logistics support, and notifications, ensuring transparent trade.

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.