

# KIRAN KUMAR CH

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## 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, DSA, OOP

**Web/Mobile:** HTML, CSS, JavaScript, Flutter, Android Studio, Firebase

**Cloud/Tools:** AWS (EC2, S3, IAM), Ghidra, Wireshark, OWASP ZAP, MongoDB

**Operating Systems:** Windows, Linux

**Hackathon Experience:** SIH 2024, Built an urban mobility solution at Namma Yatri Hackathon

**Language:** English, Telugu, Tamil, Hindi

**Certificates:** Oracle Gen AI Professional, Oracle Cloud Associate, IBM Cyber Security Analyst, Oracle Java Foundations Associate, Oracle Architect Associate, Cyber Physical Systems (NPTEL)

## Professional Experience

### Cyber Security Intern [\[Link\]](#)

Virtual

Feb 2025 – Mar 2025

#### The Red Users

- Analysed malware, phishing attacks, and secured networks (WPA2/WPA3, Windows Defender).
- Detected threats through Wireshark-based traffic analysis.
- Performed web app security testing (OWASP ZAP, WebGoat) exploiting SQLi, XSS, and CSRF.

## Projects

### Streamlined Malware Analysis with Ghidra (Python, C++)

Dec 2024

- 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)

May 2025

- 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)

Ongoing

- 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.

## Extracurricular 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.