

# Vinod Makkala

Software Engineer

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## ABOUT ME

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Final-year Computer Science student with strong skills in C,Java and Mern-stack development. Experienced in building scalable web applications, developing backend systems, and applying Software Development Life Cycle (SDLC) concepts. Passionate about problem-solving, cloud technologies, and delivering solutions aligned with business needs. Seeking to contribute as an Associate System Engineer at IBM.

## EDUCATION

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- **B.Tech - Computer Science and Engineering** Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad(2022-2026) -CGPA : 9.15

## EXPERIENCE

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- **Product Development Internship at HCDS Technologies**
  - Gained hands-on experience in product development processes.

## SKILLS

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- **Frontend:** HTML, CSS, JavaScript, React.js
- **Backend:** Node.js, Express.js
- **Database:** MySQL, MongoDB
- **Version Control:** Git, GitHub
- **Deployment:** Vercel (Frontend), Render/Heroku/Azure/Netlify (Backend Full Stack)
- **Data Visualization:** Power BI
- **Version Control & Deployment:** Git, GitHub, Vercel (Frontend), Render/Heroku (Backend)
- **Core CS Concepts:** Data Structures and Algorithms, Object-Oriented Programming (OOP), Operating Systems, DBMS, Computer Networks, Software Engineering Principles, Machine Learning

## PROJECTS

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- **OnlineStore: Mern Stack E-Commerce Platform** 2024
  - Developed a responsive E-Commerce web application using React.js (frontend), Node.js Express.js (backend), and MongoDB (database).
  - Implemented core features including product catalog, shopping cart, user authentication, and order management.
  - Built and integrated RESTful APIs for seamless communication between frontend and backend.
- **Emergency Gesture Detection and Alert System** 2025 (Current)
  - A hand gesture recognition system to interpret predefined customized signs.
  - Designed to send automatic alerts to services.
  - Likely used computer vision or sensor-based input, possibly with OpenCV, Python, or ML models.
  - It will be integrated with IOT.

## CERTIFICATIONS

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- Certified Introduction to Networks – CISCO
- Cloud Virtual Internship Certification – AWS Academy
- Certified Database Management - MongoDB University
- Zscaler Certified Zero Trust Associate (ZTCA)

## ACHIEVEMENTS

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- Secured 2nd Prize in Scientific Forstep GRIET.