Kartik NAMDEV

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Summary

Enthusiastic and driven second-year Computer Science Engineering student at VIT Vellore, specializing in Internet of Things (IoT). Currently mastering Data Structures and Algorithms (DSA) while actively exploring software development. Passionate about leveraging technology to solve real-world problems, with a keen interest in IoT applications and full-stack development. Interested in contributing to innovative projects and improving technical expertise through hands-on experience.

Education

Vellore Institute of Technology, Vellore **Aug. 2023 - Aug. 2027**
B.Tech. - Computer Science & Engineering W/S IN Internet of Things — CGPA: 8.88 / 10

MACRO VISION ACADEMY, MP **2022**
12th — CBSE — Percentage: 85 / 100

Mahesh Memorial Public School, MP **2020**
10th — CBSE — Percentage: 82 / 100

Relevant Coursework

- Object-Oriented Programming
- Data Structures
- Algorithms Analysis
- Computer Architecture

Experience

Senior Core Member — RoboVITics, VIT Vellore
Nov 2024 – Present — Vellore, Tamil Nadu

- Developed and managed websites for multiple club events, ensuring seamless registration and engagement.
- Planned and executed **hands-on robotics**, troubleshooting technical challenges, and guiding participants.
- Contributed to **Machine Design using Fusion 360**, aiding students in 3D modeling and prototyping.
- Played a pivotal role in **RoboWar**, ensuring smooth operations and intense competition.
- Led the club's tech infrastructure, managing digital platforms and event logistics.

Projects

Missing Link in Food Donation
HTML, CSS, JavaScript, Node.js, Express.js, Oracle Database, Google Maps API, Geolocation Services

- Developed an interactive web platform to connect food donors with receivers using real-time geolocation tracking.
- Designed a scalable database architecture using Oracle Database for secure and efficient storage.
- Built a RESTful API with Node.js & Express.js to match donors and recipients based on location and food perishability.

Maze Solving Bot
Ultrasonic Sensor, Motor Driver, ESP8266, Arduino IDE, Blynk

- Designed an autonomous maze-solving bot using ultrasonic sensors for obstacle detection.
- ESP8266 was implemented for wireless control and real-time monitoring via Blynk.
- Optimized motor control logic for smooth navigation using Arduino IDE.

Technical Skills

- **Languages**: Python, Java, C, C++, HTML/CSS, JavaScript, React.js, React Native, TypeScript
- **Developer Tools**: VS Code, Google Cloud Platform, Android Studio, Figma, Arduino
- **Technologies/Frameworks**: Linux, Jenkins, GitHub, WordPress, Tailwind CSS

Languages

- English (Fluent)
- Hindi (Native)