

HN Sanjay

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Professional Summary

Full-stack developer with hands-on experience building MERN applications, backend APIs, automation workflows, real-world debugging projects. Strong foundation in JavaScript, React, Node.js, MongoDB and problem-solving through practical projects. Self-motivated and detail-oriented Electronics and Communication Engineering student with hands-on experience in Robotics and Automation, Embedded systems.

Skills

- **Programming & Web:** JavaScript, HTML, CSS, React, Tailwind-Css, Figma, Node.js, Express, MongoDB, AWS, Docker, Bootstrap, Postman, Git, Jest, SuperTest, Python.
- **Data Analytics Tools:** Familiar With NumPy, Pandas, Matplotlib, Seaborn, Power BI, MySQL.
- **Other / Electronics:** PLC Programming, CNC, Solid Edge, Industry 4.0, Automation.
- **Soft Skills:** Leadership, Communication, Problem-Solving, Teamwork.

Education

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|---|--------------------------|
| Bachelor of engineering [ECE], VTU University at Proudhadevaraya Institute of Technology (PDIT), Hosapete | CGPA: 9.13 (2021 – 2025) |
| XII, Vignan Independent PU College, Hospet | Percentage: 87.68 (2021) |
| X, Little Flower Convent High | Percentage: 87 (2019) |

Internship

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|--|---------------------------|
| Bajaj Engineering & Skills Training (BEST) at PES University Bangalore | February 2025 - July 2025 |
| • Worked On Automation and Robotics, CNC, Hydraulics, Pneumatics, Sensor Technology, IIOT, PLC, HMI, Computer Vision, Digital Communication. | |
| • Modules-4: Mechatronics, Motion control and Sensor Technology, Robotics and Automation, Industry 4.0 and Smart Manufacturing | |

Contriver, Mysore

October 2022

- Built IoT-enabled prototypes using Arduino/ESP32, integrated with real-time databases for live Monitoring.
- Gained proficiency in Python programming for embedded systems
- Enhanced knowledge in system design and hardware-software integration

Projects

License Management System — MERN Full-Stack Web App

- Built a **full-stack** license management platform using MongoDB, Express, React, and Node.js (MERN).
- Implemented **role-based** authentication (JWT), secure **CRUD** operations, and license validation workflows.
- Designed dashboards for license tracking, activation history, and user access control. Added features like CSV export, search/filtering, and **API-based backend services**.
- Focused on clean architecture, debugging, and real-world deployment-ready structure.

Shopping Cart Web App (JavaScript)

- Developed a **responsive shopping cart application** using **HTML, CSS and JavaScript**
- Implemented Object-Oriented Programming (OOP) concepts by creating a reusable ShoppingCart class with methods for adding items, clearing the cart, and calculating totals & taxes.

Decimal to Binary Converter (JavaScript)

- Built an interactive web app to convert decimal numbers into binary using recursive algorithms.
- Utilized **DOM manipulation** and **event listeners** to handle user inputs and dynamically update results.

Academic Project

Railway Management System Using IoT

Designed and implemented an IoT-based railway management system with Train and Station modules. Used IR and ultrasonic sensors to detect train presence and platform status, improving situational awareness. Programmed and controlled the system using Arduino Uno, enhancing automation in railway operations.

Certifications

freeCodeCamp: Responsive Web Design, JavaScript Algorithms & Data Structures, Frontend Development Libraries.

Bajaj(ASDC): Robotics and Automation

Languages: English, Kannada, Hindi