

Nithish kumar B

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SOFTWARE ENGINEER

Passionate **Software Engineer** with a strong background in **web development** and **IoT solutions**, specializing in **MERN stack** & **ThingsBoard IoT platform**. Proven success in delivering scalable systems, such as a custom IoT solution that enhanced operational efficiency. Adept at collaborating with teams and delivering innovative user-focused solutions.

TECHNICAL SKILLS

Languages	: HTML, CSS, JavaScript, Typescript
Frameworks	: Next JS, Node.JS, Express JS
Libraries	: React.JS, Material UI, Redux, React Router,
Databases	: MongoDB, PostgreSQL
IoT Technologies	: Raspberry PI, ThingsBoard, Telegraf, MQTT, HTTP, Modbus
Others	: Docker, Git, GitHub, REST API

EXPERIENCE

Software Engineer

Yavar Tech works Pvt Ltd.

May 2024 – Present

Coimbatore, Tamil Nadu, India

- Developed end-to-end **IoT solutions** using **MERN stack**, integrating **ThingsBoard** for device management and real-time visualization.
- Designed interactive dashboards, enhancing telemetry monitoring and decision-making processes.
- Optimized system performance by integrating third-party platforms, boosting scalability.
- Key Achievement:** Enhanced operational efficiency by **25%** with a custom monitoring solution.

Graduate Engineer Trainee / Intern

Netcon Technology India Pvt Ltd.

Aug 2022 – May 2024

Chennai, Tamil Nadu, India

- Analyzed client requirements and developed tailored **IoT solutions**, preparing detailed solution documentation.
- Developed prototype IoT applications for client presentations, contributing to a **20% increase** in engagement & interest.
- Streamlined solution designs, improving communication of technical concepts.
- Researched emerging **IoT technologies**, enhancing solution relevance and innovation.

EDUCATION

Electronics and Communication Engineering

KPR Institute of Engineering and Technology

Coimbatore, Tamil Nadu, India

June 2019 – may 2023

PROJECTS

Connected Care - Cisco Innovation Challenge 2024

React JS, Thingsboard, PostgreSQL, IoT sensors

- Developed an **IoT-based system** to monitor elders in care homes, utilizing **sensors, Cameras** and **AI** for real-time monitoring.
- Implemented key features like fall detection, gesture recognition for help, and vital sign monitoring for enhanced elder care.
- Integrated **ThingsBoard** for seamless **IoT** device management, data visualization, and alert generation.
- Designed an user interface to display real-time health metrics, Real time monitoring and emergency alerts etc.
- Recognized with **APJC Special Mention** in the **Cisco Innovation Challenge 2024** for innovative and impactful design.

VIN Tracking System

React JS, Node JS, Express JS, PostgreSQL, RFID

- Developed a system to track vehicle duration in manufacturing bays using **RFID**, ensuring accurate tracking data.
- Created a responsive and user-friendly real-time dashboard to visualize vehicle movement and status.
- Designed and implemented **Restful API** for seamless communication between the **front-end** and **back-end**.
- Optimized **backend APIs**, reducing response times by **25%** and improving overall system efficiency.
- Ensured data integrity and reliability through database constraints, indexing, and best practices in data management.

ESG Monitoring System

React JS, Thingsboard, Telegraf, Modbus, Sensors

- Developed and deployed a real-time ESG monitoring system to monitor energy usage across **distributed loads**, water usage, temperature & humidity, and air quality.
- Integrated ThingsBoard and Telegraf for IoT device management, data visualization, and **real-time alerting** to improve sustainability efforts.
- Created an interactive dashboard to offer actionable insights, **trend analysis**, and compliance reporting.
- Improved energy efficiency through tracking distributed loads, recognizing consumption habits, and facilitating data-based decision-making.
- Increased operational sustainability through **automatic alerts**, maintaining proactive environmental parameter management.

Intelligent Test System

React JS, Node JS, Express JS, PostgreSQL, Rclone

- Developed a real-time monitoring system for testing machines, extracting and processing CSV data updated every second.
- Built a user-friendly interface, visualizing over **500+ data points** per minute in real-time.
- Integrated Rclone to copy data from shared folders, ensuring **99.9%** data synchronization without downtime.
- Designed and implemented 5+ backend API's using **Node.JS & Express.JS** for seamless data extraction and monitoring.
- Utilized **PostgreSQL** to store and retrieve 50,000+ test records, ensuring high performance and scalability.

CERTIFICATIONS

- React certified developer
- FreeCodeCamp - Back End Development And API's
- Cisco - JavaScript Essentials