

Aravinthan R S

Software Developer

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🌐 Aravinthan Sankaran || LinkedIn 🔗 My Portfolio

SUMMARY

- Around 2 years of experience in **Software development** using React/Next.js & Node.js with database MongoDB and as Well as in **Robotics Automation** using Python.
- Worked in stages of development process like gathering requirements, breaking down tasks, creating front and back-end components using some Technology.
- Currently working with Python language in Robotics Process Automation(**RPA**).
- Actively seeking opportunities to apply my web development skills in HTML, CSS, JavaScript, React, and also Backend skills , while continuously learning and growing professionally.

SKILLS

Frameworks

React-JS/Next-JS,Tailwind CSS

Tools & Utilities

Git,NPM,Postman,Jira,AI Tools

Backend Development

Node-JS,Express-JS,RestAPI

DataBase & DataStructure

MongoDB,Strapi-JS

Programming Languages

JavaScript (ES6) , Python

Deployment & DevOps

Docker,Netlify,Linux (Ubuntu)

CMS & Design Tools

WordPress,Figma,Canva

Robotics & Automation

ROS-2,NAV-2,Node-Red-JS,Open-CV

PROFESSIONAL EXPERIENCE

October 2022 –

present

Coimbatore, India

Iovate Technologies LLP, Software Developer

- Built systems with React/Next.js, Tailwind CSS, Express.js, and MongoDB.
- Created PoC and evaluated development tools for workflow enhancement.
- Implemented agile processes for improved team effectiveness.
- Used Figma and Canva for incremental frontend design.
- Leveraged AI tools to optimize code quality.
- Gained beginner experience with Node.js, RESTful APIs, Database and Docker.
- Worked with NPM for package management and Postman for API testing.
- Implemented and optimized autonomous navigation, mapping, and object recognition.

PROJECTS

SensorLink - Realtime Bridging Controller System

- Improved user engagement and expertise by integrating **Tailwind CSS** with **React/Next.js** to create a unified design with **90%** reusable components.
- Developed communication layer components for the product and web system utilising **Socket.io** and **Nodejs/ExpressJS**.
- Developed a basic verification layer for device authentication using **Socket.io** with static OTP.
- designed a basic enquiry form with validation for the website's contact page using **React-hookform**.

NanoLMS - Online Learning Platform.

- developed a LMS page integrated with our existing product website, initiated with **WordPress**.
- Replicated a WordPress site as a responsive **frontend application** with reusable components for easier maintenance, along with a backend using a schema model and **REST API**.
- Secured backend authentication with **Super-Tokens** for user Authorization.
- Used **Docker** for development and deployment REST API for frontend utilizing **Strapi** data model.

Supersafe : TrackFlow - Vehicle Fleet Monitoring System.

- Used **Docker**, to create a RESTful API with the **MongoDB** database.
- Designed a **Strapi** data model aligned with client needs and its relation to the **ER model**.
- Created a real-time graph in the administrative dashboard using **Chart.js** to visualize live data (POC).

eApta - Connected EV Motor Monitoring & Alert system.

- Created an IoT workflow for Connected EV motor essential sensor data using **NodeRed.js**.
- Developed and deployed rules workflows for alerts and created an interface displaying real-time sensor data, continuously monitoring the data in the UI.
- Enabled sensor communication through **EMQX (MQTT)** for issue reporting and alerts via notification channel in telegram.

Cross-Platform Integration: Autonomous Robot Development

- Integrated **ROS-2** and **NAV-2** technologies to enhance the robot's navigation system, while developing efficient path planning algorithms to optimize trajectory within its surroundings.
- Used the **OpenCV** library to assist the robot in detecting and locating training objects and Path.
- Collaborated with various teams to define and optimize object detection guidelines in the **navigation** environment for robot.
- **Python3** is utilize to build the autonomous robot for a automation.

EDUCATION

July 2016 – May 2020 **B.E. Mechanical Engineering, Tamilnadu College of Engineering - 6.9 CGPA**
Coimbatore

LANGUAGES

TAMIL



ENGLISH



CERTIFICATION

FULL STACK DEVELOPER

Completed in N School Academy