Aravinthan R S

Software Developer

aravinthanrsnkl@gmail.com | 07708710727 | Salem,Tamilnadu | 30th December 1998

Aravinthan Sankaran || LinkedIn

SUMMARY

- Approximately around 2 years (1 year 10 month) of experience in **web 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.

PROFESSIONAL EXPERIENCE

October 2022 – present
Coimbatore, India

Iovate Technologies LLP, Software developer

- Build a robust system with React/Next.js, Tailwind CSS, Express.js, and MongoDB. This tech stack ensures seamless frontend-backend integration, dynamic UIs, and efficient server-side logic for high-performance applications.
- Created a Proof of Concept (PoC) and investigated the different development tools to enhance the product workflow.
- Implement an agile process for product development to enhance team effectiveness and streamline the workflow.
- Utilizing design tools like Figma and Canva to work on some aspects of the frontend application, making progress incrementally.
- Leveraging multiple AI tools to elevate and optimize the quality of code.
- Currently playing a role on implementing, and optimizing autonomous navigation, mapping, and object recognition functionalities using a combination of some tech stacks.

SKILLS

- Next-JS
- React-JS
- Tailwind CSS
- Javascript(ES6)
- Node-JS
- Express-JS
- MongoDB
- Strapi-JS
- Docker
- Git
- NPM
- Python3
- Linux(Ubuntu)
- Netlify
- RestAPI
- Supertoken
- Canva
- ROS-2
- NAV-2
- Open-CV
- MQTT
- Node-Red-JS
- Socket.io
- Wordpress
- Jira
- Postman
- Figma
- AI Tools

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**
Coimbatore

LANGUAGES

TAMIL ● ● ● ● ● ENGLISH ● ● ● ● ●

CERTIFICATES

FULL STACK DEVELOPER
Completed in N School Acdemy