

SANTHOSH KUMAR

Software Developer

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SUMMARY

Experienced Software Developer at Astromeda Space, specializing in web development for medical exploration projects.

- Proficient in React, Vue and Node.js, with a focus on creating user-friendly software applications.
- Skilled in integrating APIs and databases to enhance functionality and performance.
- Previous experience in QA/QC engineering at Mahle Engine Components.
- Passionate about learning new software development technologies and committed to delivering high-quality, innovative solutions.

PROFESSIONAL EXPERIENCE

Software frontend developer

[Astromeda Space Pvt Ltd](#) 06/2023 - Present Bangalore

A Med tech Company

- **Health Monitoring Application for IAF (Indian Air Force)**
- Developed a desktop application with React for the frontend and Node.js for backend operations.
- Implemented dynamic ECG visualization using Chart.js and managed data with PostgreSQL and Influx DB. Orchestrated the entire application stack with Docker, ensuring seamless deployment.
- Designed a secure role-based JWT authentication system for the IAF project.
- **Web Application for DOT (Department of Telecommunication)**
- Created a Progressive Web Application (PWA) for Health monitoring utilizing Vue for the frontend and Node.js for backend operations.
- Implemented data ingestion and storage using Node-RED and Influx DB.
- Handled large-scale live data and visualized it using Chart.js, creating responsive and informative charts to enhance data interpretation.
- Developed API servers with Node.js and Express for efficient data interaction. Employed Auth0 for secure user authentication.
- Integrated advanced server-side functionalities to deliver an optimized and visually appealing user experience.
- **ADDCC (Automatic Drug Dispenser Cabinet) :**
- Developed software for a medical-purpose automatic drug dispenser cabinet.
- Used Vue for the frontend, Node.js for backend operations, PostgreSQL for database management, and Docker for deployment.
- The software controls the opening of medicine trays and was implemented on Raspberry Pi, ensuring a smooth and responsive user experience.

Quality Analyst

[Mahle engine components pvt ltd](#) 07/2022 - 05/2023 Chennai

Piston Manufacturing Company

- Performed detailed inspections on incoming materials using quality control tools, including spectrovac machines, and entered inspection data into Oracle software for the next processing stage.
- Proficiently analyzed the chemical composition of metals utilizing Spectrochemical Analysis Software and LIMS (Laboratory Information Management Systems).

PERSONAL PROJECT EXPERIENCE

Online Bus Booking application

09/2024 - Present

Bus Booking Application (*Technologies: React, Node.js, PostgreSQL, Docker*)

- Developing a full-stack bus booking app with user authentication, role-based access (admin/user), and features like seat configuration, route management, and booking confirmation to keep practicing and enhancing my software development skills.

SenseQube

07/2024 - 08/2024

Freelance Application (*Technology: React Native*)

- Created a mobile application developed to analyze farming activities, providing valuable insights for agricultural work. This project was undertaken as a freelance opportunity in collaboration with the Indian Institute of Technology (IIT) Bombay.

Portfolio

06/2023 - 06/2023 URL

Portfolio Website (*Technology: React*)

- Created a responsive portfolio website using React to showcase projects, skills, and achievements, highlighting expertise in front-end development and UI design.

SKILLS

Languages, Frameworks & Tools

HTML 5

CSS 3

Bootstrap

Javascript

Typescript

React

Vue

React Native

PWA

Node js

Express

PostgreSQL

Prisma

Docker

Responsive design

Web socket

Influx DB

Node-Red

GitHub

Version Control/Git

Auth0

Postman

Vs code

Python basics

Java basics

Canva

Figma

Oracle

Operating Systems

Windows

Linux

EDUCATION

Bachelor of engineering

[Government College of engineering](#)

09/2018 - 07/2022 Thanjavur

Higher secondary

[Shanthi Nikethan matric higher secondary school](#)

06/2017 - 04/2018 Arumbavur

LANGUAGES

English

Proficient

Tamil

Native

Kannada

Beginner

KEY ACHIEVEMENTS

✓ Defense and Telecommunications Software Engineering Contributions

Contributed to cutting-edge health monitoring software for the Indian Air Force under the IDEX program, showcasing expertise in defense software engineering. Also, contributed to Department of Telecommunications (DOT) projects.

CERTIFICATIONS

IBM, Meta & Udemy

Web development with HTML 5, CSS 3 & Javascript from IBM.

Developing Back-End Apps with Node.js and Express from IBM.

React Basics certification from Meta.

Advanced React certification from Meta.

Web development Bootcamp 2024 from Udemy.

3 months crash course in Java from **Shiash infotech solutions pvt ltd**