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, Node.js, and Vue, 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 technologies and delivering high-quality solutions.

PROFESSIONAL EXPERIENCE

Software frontend developer   06/2023 - Present

Astromeda Space Pvt ltd   Bangalore

Health Monitoring Application for IAF :
- Developed a desktop application with Vue for the frontend and Node.js for backend operations.
- Implemented dynamic ECG visualization using Chart.js and managed data with PostgreSQL and InfluxDB. 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 :
- Created a Progressive Web Application PWA utilizing Vue for the frontend and Node.js for backend operations.
- Implemented data ingestion and storage using Node-RED and InfluxDB.
- 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.

ADDC (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 locally using Electron, ensuring a smooth and responsive user experience.

Quality Analyst   07/2022 - 05/2023

Mahle engine components pvt ltd   Chennai

Piston Manufacturing Company
- Performed detailed inspections on incoming materials using Quality Control software such as Minitab and SPC (Statistical Process Control) tools, ensuring adherence to rigorous standards before processing in the foundry department.
- Proficiently analyzed the chemical composition of metals utilizing Spectrochemical Analysis Software and LIMS (Laboratory Information Management Systems).
- Meticulously verified the presence of essential elements in correct proportions to uphold product integrity and quality standards, using XRF (X-ray Fluorescence) Analyzers and chemical analysis software like Thermo Fisher Scientific's GRAMS/AI.

EDUCATION

Bachelor of engineering   2018 - 2022

Government College of engineering   Thanjavur

GPA | **7.8** / 10

Higher secondary   2017 - 2018

Shanthi Nikethan matric higher secondary school   Arumbavur

Percentage | **80** / 100

SKILLS

Languages, Frameworks & Tools

HTML · CSS · Javascript · Typescript ·
Java · React · Vue · Node js · Postgresql ·
Docker · Nodered · Prisma · GitHub ·
Auth0 · Postman

Operating Systems

Linux · Windows

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.

LANGUAGES

English   Proficient

Tamil   Native

CERTIFICATIONS

Web Development with HTML, CSS, JavaScript & Developing Front-EndApps with React
Completed courses provided by IBM on Coursera and on Udemy.

Developing Back-End Apps with Node.js and Express
Completed courses provided by IBM on Coursera.

Crash Course in Java
Completed a three-month certification course at Shiash Info Solutions Pvt Ltd

PROJECTS

Online Hotel Booking application

09/2024 Present

Hotel Booking Application: Personal project for practicing fullstack development, including both frontend(React) and backend(Node js) work.