SAIGANESH H

Chennai, IN | P: +91 9789917483 | saiganesh28042000@gmail.com | linkedin.com/in/saig2000

EDUCATION

Birla Institute Of Technology And Science	**Chennai, IN**
M.Tech in Software Engineering	JAN 2023 - PRESENT
Amrita Vishwa Vidyapeetham	**Coimbatore, IN**
B.Tech in Electronics and Instrumentation Engineering	JUNE 2017 - JUNE 2021

EXPERIENCE

Software Engineer	July 2021 - Present
Tata Consultancy Services	**Chennai, IN**

- 2+ years of experience as Full-stack Developer in developing a microservices based web-application.
- Translated designs and wireframes into high-quality interface code using HTML, CSS, and TypeScript in Angular.
- Developed single-page Angular applications with reactive forms and complex routing for seamless interaction.
- Implemented responsive and user-friendly interfaces using Angular, resulting in a 15% improvement in overall user satisfaction.
- Built Restful APIs using Spring Boot framework.
- Integrated Apache Kafka into a file-based API, reducing data persistence time by 40%.
- Wrote unit and Regression tests to verify the functionality and performance quality of the APIs.
- Actively participated in weekly code reviews to enhance code quality, maintain coding standards, and improve system efficiency.
- Authored detailed AC documentation, by meticulously recording all implemented features and thoroughly documenting the resolution of identified defects.
- Collaborated with cross-functional teams including business analysts for effectively translating the given business requirements into technical solutions, QA engineers to rapidly fix the defects raised.
- Worked with Devops team as UAT support person to provide prompt response for deployment related incident.
- Recognized with the Hi-Talent Associate award and got promoted to a higher grade in late 2021, based on exceptional performance and entrepreneurial competencies.

PROJECT

Task Planner App | *Flutter, Back4App*   **Oct 2023**

- Designed a modern intuitive UI using Figma and translated to high quality flutter interface code.
- Integrated Back4App with flutter to perform backend CRUD operations and for real time data synchronization.
- The flutter app can creating, delete, tracking and organizing the tasks.

Autonomous Robot with LIDAR | *Python, Raspberry Pi, Robot Operating System*   **May 2021**

- Designed a Autonomous Environment Mapping prototype using 2D Lidar which is powered by Raspberry PI 4.
- A unique custom-made chassis with an MQ gas sensor, 2D-Lidar, and other motorized components is used to move the robot, which is controlled by Arduino UNO.
- The robot can detect and avoid obstacles within a range of 10-15 centimeters. Compared to the market standards, this robot performs 45% better
- Implemented SLAM algorithm using Python and Rviz for real-time environment mapping were used to visualize the environment in real-time with scan accuracy of 85% using a single 2d Lidar.

SKILLS

Languages: Java, Python, C/C++, HTML, CSS, TypeScript, SQL
Frameworks: Angular, SpringBoot, Bootstrap, Kafka, JUnit
Developer Tools: Git, Github/Bitbucket, IntelliJ IDE, VS Code, Eclipse, Postman, Jenkins, Docker, Figma
Concepts: Data Structures and Algorithm, Object- oriented design, Software product management, Software design
Soft Skills: Problem Solving, Time Management, Communication