

# J Jaswanth Raj

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<https://jackjir24.github.io/Personal-Portfolio/> | <https://www.linkedin.com/in/jaswanth-raj-j-516ba4248/>

## Skills

**Languages:** Advanced: C, Python, Java, HTML, CSS, SQL; Intermediate: JavaScript, Dart, PHP

**UI-UX Designing:** Advanced: Figma, Adobe Express; Intermediate: Adobe Photoshop

**Machine Learning:** TensorFlow, Streamlit, OpenCV, YOLO

**Tools and Technologies:** GIT, GitHub, Firebase, LaTeX, Google AI Studio, MySQL, LangChain, PostgreSQL, Raspberry Pi, Arduino, NodeMCU, MongoDB, Capcut, Photoshop

## Experience

**Madras Institute of Technology, Chennai, Tamil Nadu**

Mar 2024 - Present

### IoT Intern

- Implemented IoT systems for real-time environmental monitoring, boosting data accuracy by 30%.
- Streamlined sensor-to-cloud data flow using MQTT, reducing latency by 20%
- Secured data transmission and storage with encryption, ensuring compliance with industry standards.

Tech Stack: **Arduino, Raspberry Pi, Thingspeak**

**IEEE EPICS Funded Team, Chennai, Tamil Nadu**

Currently Working

### Volunteer

- Created a UI/UX design for IoT web dashboard to monitor the project.
- Developing the design into a web dashboard using React Native.
- Ensuring real-time data visualization, alerts, and security features.

Tech Stack: **Figma, ReactJs**

## Projects

**MedTech - An AI Medical Assistant**

April 2024

- Developed modules for accurate skin disease and X-ray image diagnoses using Machine Learning and AI.
- Created a symptom checker and remedies database, offering tailored health advice based on user inputs.
- Developed an application in flutter and deployed the website which is developed in streamlit on Render, ensuring high availability and scalability.

Tech Stack: **Machine Learning, AI, Flutter, Streamlit**

**Symposium Website**

November 2023

- Developed a website for the symposium to reach out to students and facilitate event registration via Google Forms.

Tech Stack: **Wordpress, Wix**

**SEIVAR - An App for domestic workers**

January 2024

Wireframe, prototype and mockups for SEIVAR app which is used to bridge the gap between People and Workers. Developing the completed design into an app using flutter.

Tech Stack: **Figma, Firebase, Flutter**

**AI based Smart Query interface**

June 2024

- Created a chatbot that allows users to interact with the database by using natural language.
- Integrated a number of capabilities, including the ability to generate ER diagrams, load databases using .sql files, take database snapshots for recovery, and download logs to track usage.

Tech Stack: **Langchain, Streamlit, MySQL, PostgreSQL, MongoDB**

## Achievements

**Sairam SDG Ideathon 3.0**

- Secured First place at SDG Goal 9 - Industry and Infrastructure.

**NDLI Hackathon**

- Secured First place in the domain of Biomedical for our MedTech Project.

**AIOTA 2.0 Project Expo**

- Secured First place in the Nexus Project Expo for our MedTech Project.

## Education

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### Sri Sairam Engineering College

Graduation: 2026

BE Computer Science and Engineering (IoT)

**CGPA: 8.16**

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, Theory of Computation, Agile Software Engineering, Object Oriented Programming, IoT and its Architecture, Design and Analysis of Algorithms, Database Management Systems

### ST Thomas Matriculation Higher Secondary School, Chennai, Tamil Nadu 2020

SSLC

**Percentage: 84**

### ST Thomas Matriculation Higher Secondary School, Chennai, Tamil Nadu 2022

HSC

**Percentage: 86**

## Tech Profile Links

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**GitHub** [jackjir24](#)

**LinkedIn** [Jaswanth Raj J](#)

**Portfolio** [Personal-portfolio](#)