

# Sudharsana Saravanan S

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## SUMMARY

Enthusiastic and detail-oriented Software Engineer with strong expertise in React.js, Data Structures & Algorithms, and backend development. Adept at building optimized and scalable applications, with hands-on experience in full-stack development, API integration, and real-time applications. Strong problem-solving abilities and leadership skills with a passion for delivering efficient software solutions.

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, C, Java, Haskell, MATLAB, ArduinoIDE.  
**Frontend:** React.js, Material UI, Bootstrap 5, HTML, CSS, Javascript.  
**Backend:** Python (Flask), Java (OOPs, Encapsulation, Abstraction).  
**Database:** MySQL, Firestore.  
**API Integration:** REST APIs, Axios.  
**Version Control:** Git.

## KEY STRENGTHS

- Data Structures & Algorithms
- Object-Oriented Design & Principles
- Critical Thinking
- Solution Optimization
- Analytical Problem-Solving
- Leadership
- Team Collaboration

## EXPERIENCE

### Real-Time Messaging Application

Dec 2024 - Present

- Developed full-featured messaging platform using React and Firestore
- Implemented real-time communication capabilities
- Created responsive design with Bootstrap 5 and Material UI
- Ensured scalable and efficient messaging infrastructure

## PROJECTS

### Moltov

Dec 2024 - Present

#### Movie Trailer Streaming App

React.js, Firebase, Axios, TMDB API, CSS

I developed an interactive platform that allows users to stream movie trailers seamlessly. The application features real-time data fetching, authentication, and a visually engaging interface with a well-structured and responsive design to enhance user experience. It integrates external APIs for fetching movie details and ensures smooth navigation and performance.

### Hospital Management System

Nov 2022 - Present

#### DSA-Based Project

Python

Developed a Patient Priority Management System to optimize hospital operations by prioritizing patient care based on severity, age, and arrival time. Implemented Min-Heap Priority Queue, Graph (Adjacency List), and Binary Search Tree (BST) for efficient patient management, room allocation using Dijkstra's algorithm, and fast data retrieval. Optimized key operations for fast admission, discharge, and search, ensuring improved hospital efficiency and patient care.

## EDUCATION & CERTIFICATIONS

### Amrita Vishwa Vidyapeetham

B.Tech, Computer Science & Engineering | CGPA: 7.5/10

Sep 2023 - Present

Coimbatore, India

### Stanes School ICSE/ISC

Grade 10: 90% | Grade 12: 85%

June 2014 - Feb 2023

Coimbatore, India

### Certification of C Programming Language by Udemy

Instructor Haidar Al-Aubidy

### Certification of AI for Everyone by Coursera

Instructor Andrew NG