

# MAHIBALAN S

+91 6380166066 ◊ CHENNAI

[mahibalan798@gmail.com](mailto:mahibalan798@gmail.com) ◊ [linkedin.com/in/mahibalan-s-427430258](https://linkedin.com/in/mahibalan-s-427430258) ◊ <https://github.com/Mahibalan-s>

## OBJECTIVE

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Motivated final-year ECE student with skills in digital electronics and front-end development. Seeking opportunities to apply technical knowledge in hardware-software integration and contribute to innovative engineering projects.

## EDUCATION

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### Bachelor of Engineering in Electronics And Communication

St.Joseph's Institute Of Technology.

Expected 2026

Current CGPA 7.89

## SKILLS

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### Programming Languages

Java, C

### Frontend Development

HTML, CSS, JavaScript, **React Js**

### Backend Development

NodeJs, MongoDB, **Express Js**

### Tools and Technologies

VS code, Linux OS, Arduino IDE

## INTERNSHIP

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### Oil And Natural Gas Corporation, Karaikal.

9 July 2025 - 23 July 2025

Info-Com

- Understood the functioning of **telephone exchanges** and call routing mechanisms.
- Learned the fundamentals of **RF communication** and its applications in field operations.

## PROJECTS

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### E-COMMERCE WEBSITE

Developed a full-stack e-commerce application using **MongoDB, Express, React, and Node.js** with a RESTful API architecture. Implemented secure **JWT-based authentication** and global state management using Redux Toolkit for persistent cart and user sessions. Integrated PayPal API for secure multi-gateway payment processing, including server-side transaction verification. Architected an Admin Dashboard for real-time inventory management, order tracking, and user oversight using protected middleware routes.

### SMART PARKING SYSTEM

Developed a web-based parking slot booking system with real-time availability tracking and payment integration. The system categorizes slots by location type such as malls, theatres, hospitals, and institutions, and uses the Google Maps API for location-based slot booking. The frontend was built using **React.js**, while the backend was implemented with Node.js and MongoDB.

### WEARABLE HAND GESTURE COMMUNICATION SYSTEM

Smart Glove for Speech Assistance Designed an Arduino-based wearable that translates hand gestures into text using flex sensors. Engineered a custom binary mapping system to decode finger movements and output real-time messages to an LCD.

## ACHIEVEMENTS

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**2nd Price** in Blaze-A-Trail Hackathon 2024 (College Level) Developed an AI-based Internship Recommendation Engine

## CERTIFICATIONS

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**Basics of Programming in C (Elite + Silver)** – NPTEL

**Java for Beginners** – Infosys Springboard

**Frontend Development with HTML, CSS, JavaScript** – Coursera