

# Aravindh Prabu

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| [GitHub](#) | [Leetcode](#) | [LinkedIn](#) | [SkillRack](#) |

## Executive Summary

Aspiring Software Engineer with strong backend experience in designing, building, and deploying production-grade web applications. Experienced in scalable APIs, real-time systems, authentication, and cloud deployment.

## Technical Skills

**Programming Languages:** Java, C, SQL

**Front-end:** HTML, CSS, TailwindCSS, JavaScript, React.js, Redux toolkit

**Back-end:** Node.js, Express.js, REST API, Mongoose, Socket.IO

**Databases:** MongoDB, PostgreSQL

**Tools and Platforms:** Git, GitHub, Jira, Postman, Docker, NGINX, AWS (Lambda, EC2, S3)

## Experience

### Full Stack Web Developer | Project-based Engagement @ Maars Solutions

Part-Time

Jun 2025 – Aug 2025

On-site

- Worked in both **front-end** and **backend** utilizing React.js, Node.js and MongoDB for a Hospital Management website.
- Owned the appointment booking module and developed a basic **CRM** module for hospital operations.
- Built a real-time messenger module using **Socket.IO** with file sharing via **Cloudinary**.
- Developed a booking assistant **bot** that improved booking efficiency by **50%**.

### Software Developer | Intern @ RBG.ai

Winter Internship

Dec 2024 – Jan 2025

On-site

- Developed an internal **ERP** system using React, FastAPI, and MongoDB for the organization.
- Implemented attendance, task, and payroll management modules.
- Improved security by implementing **JWT**-based authentication, **RBAC** for APIs and **protected routes** Front-end.

### Front-end Developer | Freelancing

Part-Time

Aug 2024 – Oct 2024

Remote

- Collaborated with a freelancer to work on holidayjoy.com website, managed tasks via **Jira** and contributed on **GitHub**.
- Implemented responsive front-end interfaces using React and TailwindCSS based on **Figma wireframes**.

## Projects

### PSYCHIATRIST CONSULTATION PORTAL | [Live](#) | [GitHub](#) |

- Designed a MERN stack platform to facilitate online psychiatrist consultations and implemented **JWT Authentication**.
- Improved booking reliability by **90%** by preventing **multiple bookings** and **race conditions** using **MongoDB transaction**.
- Integrated an **AI-powered chatbot** by fine-tuning **Mistral-7B (Unsloth)** to handle patient general queries.

### EVENT BOOKING PLATFORM | [Live](#) | [GitHub](#) |

- Built a modular backend using **microservices architecture** (Auth, Booking, Event) services with custom **API Gateway**.
- Deployed **Dockerized** services on AWS EC2 with **NGINX reverse proxy** and full **HTTPS configuration**.
- Implemented automated CI/CD using **GitHub Actions** for seamless production deployments.

### DECENTRALIZED ENERGY TRADING PLATFORM | [GitHub](#)

- Developed a **decentralized energy market** for trading renewable energy, enabling cost-efficient transactions for users.
- Enabled peer-to-peer power trading through a real-time bidding system.
- Integrated **Socket.IO** for live bid communication.

## **Education**

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<b>Sri Ramakrishna Engineering College</b> Bachelor of Engineering, Computer Science & Engineering	<b>September 2023 – March 2027</b> (CGPA:7.45)
<b>GKD Matriculation Higher Secondary School</b> HSLC	<b>March 2023</b> (Score:71%)
<b>GKD Matriculation Higher Secondary School</b> SSLC	<b>March 2021</b> (Score:100%)

## **Hackathons**

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RAC-A-THON'2025   <b>1<sup>st</sup> place</b>	Developed a Food redistribution App
L&T HackAppsters'2025  <b>1<sup>st</sup> place</b>	Developed a Skill Sharing Website
TechXelerate'2025   <b>2<sup>nd</sup> place</b>	Developed a Blockchain-based voting system for universities
SRCAS Hackathon'2024   <b>Finalist</b>	Developed a marketplace for Renewable energy

## **Awards / Competitions**

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2024	<b>Best Paper Award</b> , ICMRSH 2024	Digital Identity Verification System
2023	<b>Top Performer</b> , Tech Sprint Ideathon Phase-1	AI Powered Firewall Protection Suite
2023	<b>2<sup>nd</sup> place</b> , Design Thinking Challenge 6.0	Portal India (website for govt to implement schemes)
2023	<b>2<sup>nd</sup> place</b> , Cynosure 2K23 (Curio Prompt)	Prompt engineering contest
2023	<b>2<sup>nd</sup> place</b> , Cynosure 2K23 (Web Design)	E-commerce website

## **Certifications**

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1. The Complete 2024 Web Development Bootcamp | UDEMY
2. Software Development Lifecycle | GREAT LEARNING
3. AWS Academy Graduate | AWS ACADEMY
4. MongoDB Node.js Developer Path

## **Responsibilities Taken**

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1. Technical executive of FOSS club of SREC
2. Executive member of AI club of SREC

## **Problem Solving**

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1. Solved 200+ problems in skillrack.
2. Solved 100+ LeetCode problems focused on Data Structures and Algorithms.