

# SANTHI RAJU

## MERN Stack Developer | Full Stack Developer

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### PROFESSIONAL SUMMARY

MERN Stack Developer with 1+ years of experience specializing in building scalable SaaS applications and multi-tenant architectures. Rapidly promoted from intern to Junior Software Engineer within 4 months. Currently developing a comprehensive SaaS-based Learning Management System (LMS) with three-tier architecture (Super Admin, Tenant/Customer, Student). Expertise in React.js, Node.js, Express.js, MongoDB, and modern frontend technologies. Proven ability to deliver full-stack solutions with focus on performance, security, and user experience. Strong background in RESTful APIs, authentication systems, and cloud deployment.

### TECHNICAL SKILLS

**Frontend:** React.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Redux, Context API, Responsive Design

**Backend:** Node.js, Express.js, RESTful APIs, JWT Authentication, Middleware, Socket.io, Python, FastAPI

**Database:** MongoDB, Mongoose ODM, Schema Design, Data Modeling

**SaaS & Architecture:** Multi-Tenant Systems, Role-Based Access Control, Microservices, Three-Tier Architecture

**Cloud & DevOps:** AWS (S3, Lambda, API Gateway), Vercel, Render, Git, GitHub

**Tools & Methods:** Postman, Swagger, Agile/Scrum, Nodemailer

### PROFESSIONAL EXPERIENCE

#### Junior Software Engineer (Jr. Software Developer)

Feb 2025 – Present

NetLabs Global IT Services

- Develop and maintain scalable web applications using **MERN stack** with focus on performance and user experience
- Currently leading development of a **SaaS-based Learning Management System** with multi-tenant architecture
- Implement **three-tier role management** (Super Admin, Tenant/Customer, Student) with granular permission controls
- Design and optimize **MongoDB schemas** for complex SaaS data structures with efficient query patterns
- Build **RESTful APIs** using Node.js and Express.js handling authentication, course management, and student progress tracking
- Implement **real-time features** including test proctoring with automated screenshot capture (every minute) during assessments
- Develop **certificate generation** system and comprehensive reporting dashboards
- Optimize application performance achieving **40% faster API responses** through database indexing and caching
- Mentor junior developers and conduct code reviews following **best practices and clean code principles**

#### Software Development Intern

Oct 2024 – Feb 2025

NetLabs Global IT Services

- Developed responsive user interfaces using **React.js** with focus on accessibility and user experience
- Built **backend API endpoints** for business logic and data processing workflows
- Implemented **state management solutions** using Redux and Context API for complex applications
- Contributed to **architectural discussions** on frontend scalability and RESTful API design
- Reduced **bug resolution time by 30%** through systematic troubleshooting and debugging
- Participated in **Agile sprints**, daily standups, and retrospective meetings

### KEY PROJECTS

## SaaS Learning Management System (LMS) – Multi-Tenant Platform

NetLabs Global IT Services – Full Stack SaaS Development (MERN Stack)

React.js

Node.js

Express.js

MongoDB

Tailwind CSS

JWT Authentication

Multi-Tenant Architecture

Role-Based Access

SaaS

- Developing a **complete SaaS-based Learning Management System** with three-tier architecture serving multiple organizations
- Implemented **Super Admin portal** to manage tenants (customers), assign courses, and monitor platform usage across all organizations
- Built **Tenant/Customer dashboard** for adding students to courses, tracking progress, and managing organizational training programs
- Created **Student portal** with course access, resource library, assessments, and certificate generation upon completion
- Implemented **secure test proctoring system** with automatic screenshot capture every minute during exams to ensure integrity
- Designed **dynamic certificate generation** system with verification mechanisms and digital signatures
- Developed **comprehensive reporting** for student progress, test results, and course completion statistics
- Built **scalable backend architecture** supporting multiple tenants with data isolation and shared resources optimization
- Implemented **real-time notifications** and progress tracking using WebSocket connections

## Ideaaz – Enterprise Project Management System

Professional Project – Full Stack Development (MERN Stack)

React.js

Node.js

Express.js

MongoDB

JWT

Role-Based Access

Inventory Management

Approval Workflow

- Developed enterprise-grade Project Management System for end-to-end project lifecycles, inventory, and financial workflows
- Implemented Customer Module with client profiles, project associations, and historical records
- Built centralized Dashboard with real-time visibility into active projects, inventory status, and financial summaries
- Created configurable Approval Workflow requiring authorization for critical changes and scope modifications
- Developed advanced Reports Module with 9 detailed reports covering project status, inventory usage, and financials
- Implemented User Management with role-based access control (RBAC) for admins, managers, and operational users

## Freelancer Project Listing Platform

Personal Project – Full Stack Development (MERN Stack)

MongoDB

Express.js

React.js

Node.js

JWT

Vercel

Render

- Architected complete marketplace application following MVC architecture and RESTful API design
- Designed normalized MongoDB database schema with proper indexing strategies for optimized performance
- Implemented comprehensive CRUD operations for projects, users, categories, bids, and reviews
- Developed advanced search functionality with multiple filters, sorting, and pagination
- Created reusable React component library following atomic design principles
- Established automated CI/CD pipeline with GitHub Actions

## Professional Portfolio Website with Cloud Infrastructure

Personal Project – Full Stack Development (MERN + AWS)

React.js

Node.js

Express.js

MongoDB

AWS S3

JWT

Nodemailer

- Developed full-featured portfolio application with Express.js RESTful backend and React.js SPA frontend
- Built secure API endpoints for contact form submissions, project data management, and dynamic content
- Implemented MongoDB database with Mongoose ODM for structured data storage
- Created robust backend security with JWT authentication and comprehensive error handling
- Deployed frontend on AWS S3 static hosting with CloudFront distribution

## EDUCATION

### Bachelor of Technology

DNR College of Engineering and Technology

CGPA: 7.77/10

2021 - 2024

KEY STRENGTHS

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SaaS Development

Proven experience in building multi-tenant SaaS applications with complex role-based architectures and data isolation

Rapid Career Progression

Promoted from intern to Junior Software Engineer within 4 months through exceptional performance and learning agility

Strong Communication

Effective mentor to junior developers with ability to articulate technical concepts clearly to diverse audiences

Full Stack MERN Proficiency

Comprehensive skills across React.js, Node.js, Express.js, MongoDB with focus on scalable application architecture

Problem-Solving Mindset

Strong analytical skills with systematic approach to debugging, optimization, and implementing complex features

Self-Motivated Learner

Successfully transitioned from electronics to software development, continuously expanding technical skillset