

JAYASIMHA PADIGERI

Software Engineer | Full-Stack & AI Systems Developer

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Software Engineer with hands-on experience developing scalable web and mobile applications using modern frontend and backend technologies. Strong foundation in Data Structures, Operating Systems, and software design principles, with a focus on clean architecture, performance optimization, and reliable system development. Experienced in building secure, role-based systems and implementing data-driven solutions in real-world environments.

Actively expanding expertise in AI/ML through data preprocessing, feature engineering, and intelligent system integration. Interested in applying machine learning and software engineering principles to design efficient, scalable, and high-performance computing solutions.

PROJECTS

LifeBand Maa

Nov 2025 – Present

Startup | AI + HealthTech

- AI-enabled maternal health monitoring system for continuous tracking of vital parameters.
- Real-time analysis of maternal health data to detect early risk conditions.
- Generates automated alerts and emergency notifications for timely medical intervention.

Smart Blog Editor

Feb 2026 – Present

Full-Stack AI Integration | [Live Demo](#)

- Built a full-stack blog editor using React, FastAPI, and MongoDB with JWT authentication and cloud deployment.
- Integrated Google Gemini AI API for content summarization and grammar enhancement workflows.
- Implemented debounce-based auto-save reducing API calls by 99% and improving real-time editing performance.

Aravind Eye Care - eLogbook App

02 Jan 2026 – 05 Jan 2026

Mobile Application

- Developed a clinical eLogbook application for ophthalmology workflows with structured case entry and analytics.
- Implemented secure authentication with role-based access control.
- Designed compliance-ready data capture using cloud storage and structured forms.

Smart School Management

Jun 2025 – Aug 2025

Full-Stack Web Platform | [Live Demo](#)

- Developed a role-based school management system supporting Admin, Teacher, and Parent workflows.
- Automated attendance and daily updates, reducing manual workload by 40%.
- Built as a Progressive Web App (PWA) with offline support and installable features.

Project-S (SmartStudy)

Mar 2025 – Apr 2025

Academic Assistant Platform | [Live Demo](#)

- Developed an academic productivity platform used by 50+ students to manage daily academic workflows with task tracking, scheduling, and centralized resources.
- Improved frontend performance through optimized state management and reduced unnecessary re-renders.

EDUCATION

Rajiv Gandhi University of Knowledge Technologies (RGUKT), RK Valley

Bachelor of Technology in Computer Science and Engineering

2023 – Present

CGPA: 9.14 / 10

Pre-University Program (MPC)

2021 – 2023

CGPA: 9.95 / 10

SKILLS

Programming: C, Java, Python, JavaScript, SQL

Core CS: Data Structures & Algorithms (DSA), Operating Systems, Computer Architecture, Database Management Systems

Full-Stack Development: React.js, React Native, Node.js, Express.js, REST APIs

Databases: MongoDB, MySQL

AI/ML: Pandas, NumPy, Data Preprocessing, ML Integration

Tools & Platforms: Git, GitHub, Linux, Postman, Render, Vercel, VS Code

ACHIEVEMENTS

Hack The Flame Hackathon Winner

Won 1st Place at a national-level hackathon held in Mumbai, conducted by Ignite Rooms; recognized for innovation and end-to-end execution.

Techzite 2.0 Hackathon Winner

Won 1st Place at TECHZITE 2.0 in Nuzvid, competing against teams from multiple colleges; recognized for high-impact innovation.

Everest Engineering Hackathon

Placed in the Top 10 among 100+ teams; gained hands-on experience in rapid prototyping and iterative problem-solving.

Project Recognition – LifeBand Maa

Project shortlisted at PitchTank, Hack the Flame, Techzite, and EVEREST Engineering for healthcare impact.