

THIYOPLUS F

Software Engineer (MERN / Full Stack)

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PROFESSIONAL SUMMARY

MERN Stack Developer with 2+ years of hands-on experience building scalable, production-ready web applications using React.js, Node.js, Express.js, MongoDB, and PostgreSQL. Strong expertise in full stack development, REST API design, admin panel implementation, and performance optimization. Experienced in integrating AI-powered features, semantic search, and modern backend workflows. Focused on clean code, maintainable architecture, and real-world software engineering best practices.

PROFESSIONAL EXPERIENCE

Virtual Tour Developer - Ruthram360

📅 02/2024 - Present 📍 Trichy, Tamilnadu

- Developed and optimized interactive virtual tour web applications using JavaScript and MERN stack technologies, improving application performance and scalability.
- Designed and implemented responsive, cross-device frontend components, ensuring consistent user experience across desktop and mobile platforms.
- Built and enhanced backend services and REST APIs to support real-time interactions and production workloads.
- Refactored UI components and backend workflows, improving code quality, maintainability, and long-term scalability.
- Collaborated with cross-functional stakeholders to deliver production-ready features aligned with business requirements.

KEY CONTRIBUTIONS

Feature Engineering

- Designed and implemented feature modules using JavaScript and MERN stack technologies, extending platform capabilities beyond the original roadmap.

Performance Optimization

- Improved application performance by refactoring UI components, optimizing data flows, and applying clean, modular frontend architecture.

Design-Aware Development

- Applied UI/UX and visual design principles alongside engineering best practices to deliver intuitive, visually polished interfaces without compromising performance.

PROJECTS

Montfort AI Chatbot Platform (Admin Panel + AI Assistant)

- Developed an AI-powered chatbot platform with a secure admin panel to manage questions, answers, and intents without developer dependency.
- Implemented RAG-based semantic search, intent routing, and AI-assisted spell correction to deliver accurate, context-aware responses.
- Integrated chatbot functionality with 3D virtual tour navigation, enhancing user engagement and interaction.
- Optimized backend workflows for scalable, production-ready deployment.
- Tech Stack** : JavaScript, Node.js, Express.js, Supabase, PostgreSQL, pgvector, Google Gemini AI

Project: DS Founder Birthday Wishes Platform

- Built a full-stack digital tribute platform supporting text, image, audio, and video submissions.
- Implemented a secure admin panel for content moderation, approvals, and featured highlights.
- Designed and developed a performance-optimized, responsive UI to support high user engagement.
- Tech Stack** : React.js, TypeScript, Tailwind CSS, Supabase, Cloudinary, Netlify

Additional projects, live demos, and case studies are available at : <https://thiyoplus-f.netlify.app/>

TECHNICAL SKILLS

Frontend : JavaScript, TypeScript, React.js, Tailwind CSS, Responsive Design

Backend : Node.js, Express.js, REST APIs, Server-Side Logic, API Integration

Databases : MongoDB, PostgreSQL, Supabase, pgvector

AI & Automation : RAG-based Semantic Search, AI Chatbots, Google Gemini AI

Tools & Practices : Git, GitHub, Performance Optimization, AI-Assisted Development, Rapid Technology Adoption

UI & Design (Supporting) : Adobe Photoshop, Illustrator, InDesign, Canva

EDUCATION

Bachelor of Science in Computer Science

Bharathidasan University

📅 06/2020 - 05/2023 📍 Trichy, Tamilnadu