

# THIYOPLUS F

## MERN Stack Developer | Software Developer

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### SUMMARY

MERN Stack Developer / Software Developer with 2+ years of experience building scalable, production-ready web applications using React.js, Node.js, Express.js, and MongoDB. Experienced in full-stack software development, including frontend development, backend services, REST API development, database design, and admin panel implementation. Hands-on experience integrating AI-powered features to enhance software functionality and automation. Strong focus on software engineering best practices, performance optimization, clean code, and maintainable system architecture for real-world applications.

### SKILLS

#### Core Technologies (MERN Stack)

JavaScript, React.js, Node.js, Express.js, MongoDB

#### Web & Software Development

Full Stack Development, Software Development, Web Application Development, Backend Development, Frontend Development

#### APIs & Backend

REST APIs, Server-Side Logic, API Integration

#### Databases

MongoDB, PostgreSQL, Supabase

#### Tools & Practices

Git, GitHub, Rapid Technology Adoption, AI-Assisted Development, Performance Optimization

#### UI & Design (Supporting Skills)

Tailwind CSS, Responsive Design, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Canva

### EXPERIENCE

#### Virtual Tour Developer - Ruthram360

02/2024 - Present   Trichy, Tamilnadu

- Developed and optimized interactive virtual tour web applications using modern JavaScript frameworks and MERN stack technologies, improving performance, scalability, and platform reliability.
- Implemented feature enhancements and system improvements to support long-term maintainability, responsive behavior, and seamless user interaction across multiple devices.
- Collaborated with cross-functional stakeholders to deliver user-friendly frontend components and production-ready solutions, improving usability and overall user engagement.

### EDUCATION

#### Bachelor of Science in Computer Science

##### Bharathidasan University

06/2020 - 05/2023   Trichy, Tamilnadu

### PROJECTS

#### Montfort AI Chatbot Platform (Admin Panel + AI Assistant)

- Developed an **AI-powered chatbot platform with an 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 interactions with 3D virtual tour navigation and optimized backend workflows for scalable, production-ready deployment.
- Tech Stack:** JavaScript, Node.js, Express.js, Supabase, PostgreSQL, pgvector, Google Gemini AI

#### DS Founder Birthday Wishes Platform

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

#### Portfolio

Additional projects, live demos, and case studies are available at :

<https://thiyoplus-f.netlify.app/>

### KEY CONTRIBUTIONS



#### Feature Engineering

Designed and implemented feature modules using JavaScript and MERN stack technologies, extending platform capabilities beyond the original roadmap while ensuring scalability and maintainability.



#### Performance Optimization

Improved application performance and code quality by refactoring UI components, optimizing system workflows, and applying clean, modular frontend architecture.



#### Design-Aware Development

Applied UI/UX and visual design principles alongside development to deliver intuitive, visually polished interfaces without compromising performance or engineering standards.