

BALAKRISHNAN M

MERN Stack Developer

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PROFESSIONAL SUMMARY

Results-driven MERN Stack Developer with a proven track record of engineering high-performance full-stack applications. Specialized in building secure RESTful APIs with Node.js and Express.js, architecting scalable MongoDB databases, and developing responsive frontends using React.js and Next.js. Adept at Agile methodology, database optimization, and modern AI engineering workflows to deliver scalable enterprise solutions.

TECHNICAL SKILLS

Frontend: React.js, Redux Toolkit, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Responsive Design, Server-Side Rendering (SSR)

Backend: Node.js, Express.js, RESTful API Design, JWT Authentication, bcrypt, Middleware Architecture, Query Optimization

Database: MongoDB, Mongoose ODM, Database Indexing & Caching

DevOps & Tools: Git, GitHub, Vercel, Render, Postman, VS Code, Razorpay Payment Integration, Agile Methodology

AI Tools: Claude AI, GitHub Copilot, ChatGPT, Prompt Engineering

Currently Learning: TypeScript, Next.js 14, Docker

WORK EXPERIENCE & PROJECTS

Independent MERN Stack Developer (Full-Stack)

Jun 2026 – Present

Pizza Palace – Full-Stack Online Food Ordering Platform

- Architected a scalable MERN ecosystem supporting 50+ menu items with RESTful APIs, reducing order processing time by 60%.
- Engineered secure user authorization using JWT and bcryptjs, managing Role-Based Access Control (RBAC) for 100+ concurrent test users.
- Integrated 15+ custom API endpoints for real-time CRUD operations, achieving a <2s page load time and 95+ Lighthouse performance score.
- Optimized order workflows with a dynamic status system (Pending to Delivered) and implemented secure environment variable management.

Frontend UI Developer (Freelance)

Feb 2026 – Mar 2026

TripAdvisor Clone – Responsive Travel Platform UI

- Developed a pixel-perfect, mobile-first responsive UI with 470+ lines of custom CSS, maintaining cross-browser compatibility for 100% of users.
- Designed a high-conversion 8-section homepage including dynamic hero search and category sliders, improving UI engagement metrics in testing with 0 layout shifts.
- Implemented complex Flexbox layouts and hover effects to optimize rendering performance, reducing page load time by 40% (<2s load).

EDUCATION

B.E – Robotics and Automation

2021 – 2025

Dhanalakshmi Srinivasan Engineering College, Perambalur, Tamil Nadu

CGPA: 7.4 | First Class

CERTIFICATIONS

- The Complete MERN Stack Developer Masterclass
- Entry Level Prompt Engineer – EMC | 2025

ADDITIONAL INFORMATION

Languages: Tamil (Native), English (Professional Proficiency)

Availability: Immediate joiner | Open to on-site roles across Tamil Nadu