

THIPPESWAMY K R

Full-Stack Developer (MERN / Next.js)

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PROFESSIONAL SUMMARY

Full Stack Developer specializing in scalable, cloud-based web applications using React.js, Next.js, Node.js, and MongoDB/PostgreSQL. Experienced across the full stack development lifecycle: RESTful APIs, State Management (Redux, React Hooks), secure authentication, CI/CD pipelines, and automated testing. Delivers production-grade, AI-integrated products end-to-end, with a focus on reliability under real-world failure conditions.

SKILLS

Core: Full Stack Development, RESTful APIs, State Management, React Hooks, Version Control (Git)

Languages: JavaScript (ES6+), TypeScript, Python, SQL

Frontend: React.js, Next.js, Redux, React Hooks, Tailwind CSS, HTML5, CSS3, Responsive Design

Backend: Node.js, Express.js, RESTful APIs, JWT Authentication

Databases: MongoDB, PostgreSQL, MySQL, Prisma, Redis

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD, Vercel, Netlify, Git, GitHub

Testing & Tools: Jest, Vitest, Supertest, Postman, Zod, Unit Testing

EXPERIENCE

Full Stack Developer Intern

Feb 2026 – May 2026

SuprMentr Technologies Pvt Ltd

- Shipped scalable, full stack development features across the MERN stack in sprint-based Agile/Scrum cycles, translating product requirements into working code each sprint.
- Owned end-to-end development of FinSight, a cloud-based finance tracker handling recurring transactions, budget alerts, and CSV ingestion, from schema design through deployment.

PROJECTS

FinSight — Personal Finance Productivity App

github.com/Thippeswamykr1204/FinSight | finsight-five-delta.vercel.app

Next.js 14, TypeScript, Prisma, PostgreSQL, Redis, Tailwind CSS, Recharts, Zod

- Built a scalable, dashboard-driven full stack finance app with RESTful APIs covering income/expense tracking, recurring transactions, and category-based cash-flow analysis across 9 REST API endpoints and a 2-model relational schema.
- Prevented data corruption at ingest with a 5-field composite-key duplicate check (amount, date, description, type, category) in the CSV bulk-import pipeline.
- Hardened app reliability with a cloud-based Redis caching layer across 3 tiered TTL caches (30s–120s) that degrades gracefully, keeping core functionality intact during cache outages.

Yatrik — AI-Powered Travel Planner

github.com/Thippeswamykr1204/Yatrik | yatrik.vercel.app

Next.js 15, TypeScript, Tailwind CSS, Node.js, Express.js, MongoDB Atlas, Google Gemini API

- Built a scalable full stack AI travel planner with RESTful APIs across 3 backend route modules and a 6-screen user flow (auth through itinerary generation), with personalized day-by-day plans and cost estimates via the Gemini API.
- Delivered 5 Gemini-powered AI endpoints, including a Smart Day Regeneration feature letting users rebuild a single itinerary day in isolation, preserving the rest of the trip plan.
- Secured all 6 trip-management endpoints behind JWT authentication, bcrypt password hashing, and ownership-based authorization middleware.

PulseQ — Real-Time Hospital Queue Management System

github.com/Thippeswamykr1204/PluseQ | <https://pluse-q.vercel.app>

MERN Stack, Socket.io, JWT, Zod, Jest, Supertest, MongoDB Atlas

- Engineered a scalable, real-time full stack hospital queue system with RESTful APIs across 18 endpoints covering auth, queue lifecycle, token assignment, and analytics, with Socket.io room-based events for live updates without polling.
- Enforced data integrity with Zod schema validation, Helmet security headers, and express-rate-limit on all mutating endpoints, backed by a 3-model schema (Queue, Manager, Token) with compound indexing for manager-scoped queries.
- Resolved race conditions in concurrent token assignment using atomic MongoDB operations, validated through a 21-test Jest/Supertest unit testing suite run against mongodb-memory-server for isolated, transaction-safe testing.

EDUCATION

Bachelor of Engineering — Artificial Intelligence & Machine Learning

Sri Sairam College of Engineering, Anekal | VTU | CGPA: 7.81/10

2022 – 2026