

MAHESH RATHOD

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SUMMARY

Full-Stack Software Engineer with hands-on experience across React, Node.js/Express, TypeScript, PostgreSQL and AWS, building production REST APIs, RBAC-driven web applications and automation platforms end-to-end. Skilled in database and API optimization, authentication/authorization, Redis caching, Docker-based deployment, and AI-powered content pipelines, with working knowledge of unit testing, CI/CD, GraphQL, WebSockets and core system design.

EXPERIENCE

Software Engineer — Atomic Loops Pvt. Ltd.

May 2025 – Present

- Engineered the frontend architecture of the IAC RFQ Automation Tool using React.js and TypeScript, automating Excel-based RFQ workflows, improving accuracy by 90% and reducing processing time by 95%.
- Architected document-level RBAC with three access tiers (View / View-Edit / View-Edit-Status Change), eliminating unauthorized RFQ and document access across Admin, Employee and Vendor roles.
- Delivered role-specific application layouts for Admin, IAC Employee and IAC Vendor user types, including a fully isolated supplier-facing experience for Vendors.
- Developed RFQ assignment workflows enabling Sales users to allocate employees to RFQs, restricting document visibility strictly to assigned team members.
- Built dynamic workflow visualization with XY/React Flow and Excel-like editable tables using TanStack Table, simplifying complex RFQ and team-collaboration processes.
- Streamlined vendor/admin operations and email notification automation using reusable custom hooks and shared components, reducing duplicate code across modules.

Full-Stack Developer — Hindutva Digital (Freelance)

Aug 2024 – Dec 2024

- Designed and developed a full-stack digital news platform (Next.js, React, Node.js, PostgreSQL, Prisma) supporting article publishing across four languages: English, Hindi, Marathi and French.
- Developed secure Node.js/Express REST APIs with Argon2 password hashing, Zod request validation and JWT-based authentication/authorization.
- Implemented Redis caching that cut average API response time from ~400ms to 40–50ms (roughly 90% faster) for frequently accessed content.
- Dockerized the application and deployed backend services on AWS EC2 with media stored in AWS S3; frontend hosted on Vercel.
- Integrated an AI-powered translation pipeline enabling a single article to auto-publish across all four supported languages, plus an LLM-powered cron pipeline generating scheduled content from Excel/CSV title lists.
- Implemented server-side rendering with Next.js to improve SEO indexing, contributing to organic daily active users growing from ~500 to ~1000 (30–50% increase) with zero paid marketing; built an admin dashboard for CTR analytics and content management.

PROJECTS

Swastik Events — Event Booking Platform

Feb 2024 – Apr 2024

- Built a full-stack event-booking platform (Node.js, Express, React, Postgres) enabling suppliers to independently list and manage event packages while customers browse and book services online.
- Secured user authentication and role-based access control via JWT and middleware authorization, with bcrypt hashing and Zod validation hardening API input.
- Optimized database queries and API response handling to improve system responsiveness and maintainability.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C, C++

Frameworks & Libraries: Node.js, Express.js, React.js, Next.js, Redux, Redux Toolkit, React Router, Tailwind CSS, Shadcn, MUI

Databases & Data: PostgreSQL, MySQL, MongoDB, Redis, SQL, Prisma, Sequelize, ORM

Backend & Security: REST APIs, GraphQL, WebSocket, WebRTC, JWT, RBAC, Argon2, Zod, API Validation, Authentication/Authorization

Cloud & DevOps: AWS EC2, AWS S3, Docker, CI/CD, Git, GitHub, Postman, Thunder Client

Testing & Design: Unit Testing (Jest, Mocha), System Design Basics, Data Structures & Algorithms, OOP

AI / Automation: LLM-based content generation, AI translation pipelines, cron-based automation

EDUCATION

Dr. Babasaheb Ambedkar Technology University, Lonere — Bachelor of Technology, Computer Science | 2024

Deogiri College, Aurangabad — Higher Secondary Certificate (HSC)

ACHIEVEMENTS

- Solved 200+ Data Structures and Algorithms problems across LeetCode and GeeksforGeeks.