

# Mohammed Shahil T

## Full Stack Developer

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### Profile Summary

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**Self-taught MERN stack developer** with a strong focus on building **full stack web applications**. Experienced in creating **scalable solutions**, working across both **frontend** and **backend**, and deploying to the **cloud**. Passionate about solving **real world problems** through **clean** and **efficient code**.

### Technical Skills

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- **Frontend Development:** HTML, CSS, JavaScript, React.js, Next.js, Redux, Zustand, Tailwind CSS, MUI, Framer Motion
- **Backend Development:** Node.js, Express.js, NestJS, REST APIs, WebSockets (Socket.io), Clean Monolithic Architecture
- **Database Management:** MongoDB, Mongoose
- **DevOps & Infrastructure:** Docker, AWS ECS, AWS EC2, Nginx, PM2
- **Payment Integration:** Razorpay, Stripe, Wallet-based Payments, Refund Handling
- **Real-time Communication:** WebSockets, WebRTC, RabbitMQ
- **AI Integration:** OpenAI API, Gemini
- **Programming Languages:** JavaScript, TypeScript (backend)

### Projects

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#### AliteHub – Professional Networking and Hiring Platform

[GitHub : Client](#) | [Server](#)

Developed a LinkedIn-style social and hiring platform that enables users to post, connect, and chat. Companies manage job listings, view applicants, and conduct live interviews. Admins oversee and maintain platform-wide operations and activity.

- User-side features include social feeds, post-management, messaging, and connection systems.
- The company side includes job management, application handling, and scheduling live interviews via **WebRTC**.
- Integrated Gemini to rank candidates based on AI assessments before job application, streamlining the filtering process for companies.
- Integrated **Stripe** for payments; used **RabbitMQ** for background task processing.
- Deployed using **Docker** containers on **AWS ECS** with CI/CD pipeline.
- **Tools Used:** MERN Stack, RabbitMQ, Socket.io, WebRTC, Stripe, Docker, AWS ECS

#### Trovup – E-commerce Web Application

[GitHub](#)

Created a full-stack e-Commerce platform tailored for electronics with seamless user experience. Includes authentication, intuitive browsing, and efficient cart & wishlist handling. Designed for both customers and admin operations.

- Implemented admin modules for user, product, category, brand, offer, and coupon management.
- Integrated **Razorpay** for secure payment handling and a custom wallet system with refund capabilities.
- Enabled shipment tracking using **Socket.io**; auto-generated invoices via **PDFKit**.
- **Tools Used:** Node.js, Express.js, MongoDB, EJS, Razorpay, Socket.io, PDFKit

## Collaborative Projects

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### Teletree – Lead/Data Selling and Telecalling Platform

[GitHub](#)

Developed a production-grade platform for managing and selling categorized contact data (e.g., maids, telecallers). Integrated secure payment and OTP systems; currently live with active users and registrations.

- Built features for user registration, including allowing users to register themselves as telecallers.
- Admins can add/manage telecallers and organize contact leads for sale under various categories.
- Integrated **Razorpay** for secure online payments before accessing premium contact data.
- Implemented SMS-based OTP verification using **SMSCountry** to validate user actions and registrations.
- Implemented reverse geocoding using **LocationIQ** API to auto-detect and display the user's location based on GPS coordinates.
- Project is live in production with active users and growing database of telecallers and data entries.
- **Tools Used:** Express.js, EJS, MongoDB, Razorpay API, SMSCountry

### Nomotiwa – Real-Time Hospital Token Management System

[GitHub](#) : [Client](#) | [Server](#)

Built a real-time hospital queue system to manage doctor-wise live tokens and reduce patient wait times. The project includes a web dashboard for clinics and a mobile app for users to track queue status live. Temporarily made public for demonstration purposes.

- Developed the hospital/clinic panel using **React.js** to manage doctor-specific token queues and bookings.
- Built secure backend using **Express.js**, including APIs for both hospital dashboard and Flutter-based user app.
- Implemented email-based OTP login using **Nodemailer** for seamless and secure user authentication.
- Integrated **Socket.io** for broadcasting real-time token updates to the user app.
- Enabled user token retrieval via email after being booked through the clinic's panel.
- Collaborated with a Flutter developer to integrate backend APIs and deliver real-time updates to users.
- **Tools Used:** React.js, Express.js, MongoDB, Socket.io, Nodemailer, Flutter (Client-side App)

## Experience

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### Full Stack Developer – Geekstack

*July 2025 – Present*

Leading development of scalable full-stack applications with a focus on performance, real-time systems, and cloud-native architecture.

- Led development of a **Zepto-style multi-vendor delivery platform** with three modules: user, delivery partner, and admin dashboard.
- Designed and implemented core system architecture, ensuring scalability and modular service structure.
- Conducted high-load testing, successfully handling **1000+ orders per minute** with only **23 failures**, demonstrating system reliability and robustness.
- Integrated **Redis** for caching and performance optimization, improving response times and system throughput under heavy load.

- Built and integrated **real-time delivery tracking** using map APIs, enabling live location updates for users and delivery partners.
- Implemented secure **payment gateway integration** for seamless order transactions.
- Deployed and managed applications on **AWS ECS**, ensuring high availability and scalability.
- Configured and maintained **AWS ElastiCache (Redis)** with load balancing for handling high traffic efficiently.
- Managed complete **CI/CD and deployment pipelines**, handling end-to-end production releases.
- Collaborated across teams to deliver production-ready features with a focus on reliability and performance.
- **Tech Stack:** Node.js, Express.js, MongoDB, Redis, AWS ECS, ElastiCache, Map APIs, Payment Gateway Integration

## EDUCATION

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- **Bachelor of Computer Applications (BCA)** 2026 – Present  
*Lovely Professional University (Online)*
- **MERN Stack Developer Program** 2024 – 2025  
*Brototype, Calicut*
- **Higher Secondary Education** 2022 – 2024  
*Malappuram, Kerala*