ROHITH MERN.js developer

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Profile

I am a passionate **MERN stack developer** with a strong foundation in **MongoDB, Express.js, React.js, and Node.js**. Through hands-on projects, I have gained practical experience in developing **dynamic front-end interfaces, RESTful APIs, and scalable database-driven applications**. A quick learner with strong problem-solving skills, I am eager to contribute innovative ideas, collaborate effectively in team environments, and grow as a **full-stack developer** while delivering efficient and user-friendly web solutions.

Education

2022 – 2025
Palakkad

Diploma in Computer Engineering St.Mary's Polytechnic College Palakkad Focused on core computer engineering subjects including **programming, database management, computer networks, and software development**. Gained hands-on experience in **web development, object-oriented programming, and data structures** through academic projects. Developed a strong foundation in **problem-solving and coding** with exposure to **HTML, CSS, JavaScript** .

Professional Experience

May 2025
Palakkad

MERN Stack Intern | Softronics, Palakkad
- Currently Working on an intensive training program focused on industry-standard full-stack development practices.
- Gaining hands-on, project-based experience in the entire software development lifecycle, from front-end design and back-end API development to database management and deployment.
- Applying knowledge of MongoDB, Express.js, React, and Node.js to build and deploy functional web applications.

Projects

Smart City Civic Issue Management Platform

Full-Stack MERN Application with AI Integration

Developed a comprehensive citizen engagement platform enabling residents to report civic issues with intelligent automation. The system features AI-powered image classification using a trained model (85-92% accuracy) for automatic categorization of infrastructure problems, real-time chat communication between citizens, department admins, and mayor's office, and role-based dashboards for citizens, department administrators, and city officials.

Key Technical Achievements:
- Implemented AI-driven report classification using OpenAI GPT-4 and custom-trained TensorFlow model analyzing 9,676+ civic issue images
- Built real-time messaging system with Socket.io featuring message deletion time limits and department-specific routing
- Designed geospatial indexing with MongoDB for location-based issue tracking and mapping
- Created comprehensive analytics dashboard with data visualization (Recharts) showing trends, workload distribution, and resolution metrics
- Developed secure authentication system with JWT, bcrypt, and role-based access control (citizen/admin/mayor)
- Tech Stack: React 18, Node.js, Express, MongoDB, TensorFlow, OpenAI API, Socket.io, Tailwind CSS, Cloudinary, JWT
- Impact: Streamlined civic issue reporting with automatic priority assignment, department routing, and status tracking, enabling efficient resource allocation and faster resolution times for city infrastructure problems.

Real-Time Chat Application

- Full-stack MERN application with real-time messaging using Socket.IO and JWT-based authentication with OTP email verification
- Backend Architecture: Built scalable REST API with Express.js and MongoDB, implementing secure authentication middleware, message delivery/read receipts, typing indicators, and online/offline status tracking
- Frontend Development: Developed responsive React application with context-based state management, real-time WebSocket connections, and modern UI using TailwindCSS
- Advanced Features: Implemented group chat functionality, friend request system, conversation management, and WebRTC signaling for voice/video calls
- Security Implementation: Applied industry best practices including Helmet.js for HTTP headers, rate limiting, MongoDB injection prevention, and bcrypt password hashing
- Tech Stack: React, Node.js, Express.js, MongoDB, Socket.IO, JWT, Nodemailer, TailwindCSS, Vite

Finding - AI-Powered Developer Networking Platform

A full-stack social networking platform designed for developers, featuring AI-powered skill matching, real-time communication, and comprehensive profile management. Built with the MERN stack and modern web technologies.

Key Features:

- **AI-Powered Matching**: Integrated Hugging Face API with sentence-transformers model for intelligent developer recommendations based on skills and interests
- **Real-Time Communication**: Implemented Socket.IO for instant messaging with typing indicators, read receipts, and online/offline status tracking
- **Social Features**: Posts with likes/comments, user connections, profile management with skills and portfolio showcase
- **Advanced Search**: MongoDB text search with filters for skills, experience level, and keywords
- **File Management**: Cloudinary integration for avatar and resume uploads
- **Secure Authentication**: JWT-based authentication with bcrypt password hashing

Tech Stack:

- **Frontend**: React 18, Vite, Tailwind CSS, Socket.IO Client, React Router, Lucide Icons
- **Backend**: Node.js, Express, MongoDB, Mongoose, Socket.IO, JWT, Multer
- **APIs & Services**: Hugging Face AI, Cloudinary, MongoDB Atlas
- **Features**: RESTful API, WebSocket connections, file uploads, real-time notifications

Technical Highlights:

- Responsive design with modern UI/UX principles
- Scalable architecture with separate client-server structure
- Real-time bidirectional communication for messaging and notifications
- Secure password hashing and token-based authentication
- Cloud-based file storage and database hosting

Skills

- **Frontend Development:** HTML5, CSS3, JavaScript (ES6+), React.js, Redux, Tailwind CSS, Bootstrap
- **Backend Development:** Node.js, Express.js, REST API
- **Database:** MongoDB
- **Tools & Deployment:** Git, GitHub, Netlify, Vercel, Render
- **Soft Skills:** Teamwork, Communication, Problem Solving , Quick Learning

Languages

- English
- Malayalam
- Tamil