MUHAMMED SINAN

MERN Stack Developer

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Profile Summary

Self-taught **MERN** stack developer passionate about building scalable, efficient applications. Fascinated by technology from a young age, I've continuously expanded my expertise across various tools and frameworks. Committed to improving my skills, writing better code, and delivering impactful solutions.

Technical Skills

Languages: JavaScript, TypeScript, SQL, HTML, (S)CSS.

Frameworks: Node.JS, ExpressJS, NestJS, NextJS, TailwindCSS.

Database: MongoDB, PostgreSQL.

Libraries: ReactJS, Socket.io, Redux, React-query, Framer motion, Radix Ui, WebRTC, Axios, JWT.

Platforms: AWS, Github, Render, Vercel, Firebase, Cloudinary.

Tools: Git, GitHub Actions, CI/CD, Windston, Eslint, Npm.

Concepts: Clean Architecture, MVC Architecture, SOLID Principles, Agile Methodologies.

Others: GoogleAi, OpenAi, Stripe, Razorpay, OAuth 2, Zod, Joi. ViteJS.

Projects

AVM Ayurvedic: Hospital Management | *Next.js, Node, Express, MongoDB, WebRTC, WebSocket*　Live | GitHub | Demo

- A wellness platform with **AI-powered** health insights and Ayurvedic consultations, featuring video calls, smart booking, and secure payments
- Optimized the front end for performance, achieving **90+ scores** in Google Lighthouse for **SEO,** accessibility, and page speed.
- Implemented **real-time video** consultations and communication features.
- Architected the backend using Node.js, Express.js, and MongoDB hosted on **AWS**, ensuring scalability and secure data handling.
- Followed **clean architecture** and **SOLID principles** for maintainable, modular code, with robust error logging via Winston.
- Deployed the platform using **Vercel**, managing CI/CD pipelines with GitHub Actions for automated testing and deployment workflows.
- Implemented **Role-Based Authorization**, ensuring secure access management and differentiated user permissions for various platform features.
- **Frontend**: Next.js**,** TypeScript, React, WebRTC, SimplePeer, firebase**,** Tailwind CSS, Radix UI, Shadcn, Framer Motion, ReactQuery, React Hook Form, Axios.
- **Backend**: Node.js, Express.js, MongoDB, AWS, Google AI, WebRTC, SimplePeer, Socket.io, OAuth 2.0, JWT, Stripe, Access token and Refresh token, Presigned URL, Nodemailer.
- **DevOps**: Vercel, GitHub Actions, ESLint, Prettier, Postman, Nodemon, Winston, Vercel Analytics, Clean Architecture, SOLID Principles.

Trends: E-commerce Store | *NodeJS, Express, MongoDB, Ejs.*　Live | GitHub | Demo

- **Authentication**: Secure registration, login, OTP validation, and JWT-based authentication.
- Core Features: Multiple addresses, wallet, dynamic offers, cart, wishlist, and coupon management.
- **Payments** & Orders: Flexible payment integration with Razorpay, and order tracking/management.
- Admin Panel: Comprehensive management of products, categories, stock, orders, sales reports, and banners.
- **Real-Time Chat:** Built-in chat system for customer support and admin interaction.
- Sales & Analytics: Generate detailed sales reports for performance tracking.
- **Invoices & PDF Generation**: Automatic invoice creation using PDFKit for each order.
- Performance & Security: Hosted on **AWS** with **NGINX** for scalability, reliability, and security.
- SEO & Mobile Friendly: Optimized for search engines and fully responsive design for mobile users.
- **Tech Stack:** Express.js, MongoDB, EJS, Razorpay, Nodemailer, JWT, Moment, PdfKit.

Mini Projects

Sahithyolsav Manager | *React, Redux, ExpressJS, NodeJS, MongoDB.*   Live | GitHub | Demo
- A program management application, for the *SSF Kerala* community using the **MERN** stack within three days.
- Implemented features for mark lists, team marks, program registrations, and participant management.
- Optimized performance with memoization, achieving a **70%** boost, and reduced API calls by **80%** through smart **caching** and state management.
- Enhanced user experience with code splitting and lazy loading, resulting in faster load times.
- Secured the application using JWT authentication to ensure data integrity and user security.
- **Frontend**: React, Redux, Tailwind CSS, Vite, ESLint.
- **Backend**: Node.js, Express, Mongoose, JWT.

URL-shortener | *NestJS, MongoDB, React*   Live | GitHub | Demo
- Developed a URL shortener with the MERN stack and NestJS backend for efficient server-side operations.
- Added URL shortening, click tracking, and user authentication with a personalized dashboard.
- Gained experience with NestJS, focusing on modular architecture, dependency injection, and JWT authentication.

Ace-Quiz: Quiz App | *NextJS, MongoDB, Redux, ExpressJS, NodeJS*   Live | GitHub | Demo
- Built a quiz application using Next.js, TypeScript, and Clean Architecture, focusing on a scalable and maintainable codebase.
- Integrated tools like Radix UI for accessible components, Redux Toolkit for efficient state management, and Node.js/Express for the backend.
- Gained hands-on experience with GitHub workflows and CI, enhancing skills in automated deployment and testing.

Olx & Netflix Clones | *React, Firebase, TMDb.*   GitHub: Olx | Netflix
- Developed comprehensive clones of Netflix and OLX using ReactJS and Firebase, ensuring responsive and dynamic user interfaces tailored for smooth user experiences.
- Integrated The Movie Database (TMDb) API for real-time movie data in the Netflix clone and implemented secure user authentication with Firebase for both projects, enhancing user management capabilities.
- Implemented image uploading functionality in the OLX clone, allowing users to post visually appealing listings, while ensuring secure login and registration processes in both applications.
- Leveraged Context APIs for effective state management in both projects, ensuring scalability and maintainability in handling user interactions and data flows.

Education

MERN Stack Development   2023 - Present
Brototype   *Kozhikode, Kerala*

Higher Secondary (Computer Science)   2021 - 2023
SNGHSS, chelannur
Kozhikode, *Kerala*