

MUHAMMED SINAN

MERN Stack Developer

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ABOUT ME

Self-taught MERN Stack Developer with hands-on experience in building and deploying scalable, high-performance web applications using MongoDB, Express.js, React.js, and Node.js. Strong proficiency in front-end and back-end development, with a focus on creating efficient, secure, and user-friendly solutions. Passionate about continuous learning and applying new technologies to solve real-world problems, with a commitment to writing clean, maintainable code.

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, GoogleAi, OpenAi, OAuth 2.0, ViteJS
- **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:** Self-learning, Leadership, Multi Tasking

PROJECTS

• AVM Ayurvedic: Hospital Management Platform

Next.js, Node.js, Express.js, MongoDB, WebRTC, AWS

[Live](#) | [GitHub](#) | [Demo](#)

- Developed an **AI-powered hospital management platform** for Ayurvedic consultations, featuring secure video calls, booking, and payments
- Optimized frontend with **Next.js** and **TailwindCSS**, scoring 90+ in **Google Lighthouse** for SEO, performance, and accessibility
- Implemented real-time video consultations using **WebRTC** and SimplePeer, enhancing user experience
- Architected a scalable, secure backend with **Node.js**, **Express.js**, and **MongoDB**, following **Clean Architecture** principles
- Deployed the platform on **AWS** and **Vercel** using CI/CD pipelines via **GitHub Actions**, enabling automated deployments
- Implemented **role-based access control (RBAC)** for secure user authentication and permissions
- **Frontend:** **Next.js**, TypeScript, WebRTC, TailwindCSS, ReactQuery, Radix UI, Framer Motion, Zod
- **Backend:** **Node.js**, Express.js, MongoDB, AWS, WebRTC, Socket.io, OAuth 2.0, JWT, Stripe, Joi
- **DevOps:** Vercel, GitHub Actions, ESLint, Prettier, Postman, Winston, Clean Architecture

• Trends: E-commerce Platform

Node.js, Express.js, MongoDB, Razorpay, EJS

[Live](#) | [GitHub](#) | [Demo](#)

- Created an **e-commerce platform** with secure authentication, wallet management, and dynamic offers, supporting cart and wishlist functionality
- Integrated **Razorpay** for multiple payment methods, along with order tracking and coupon management features
- Built an **admin panel** for managing products, categories, and orders, including sales reporting and invoice generation using **PDFKit**
- Implemented real-time customer support using **WebSockets** for efficient communication
- **Tech Stack:** **Node.js**, Express.js, MongoDB, EJS, Razorpay, PDFKit, JWT, Moment.js

• Sahithyolsav Manager: Event Management Tool

React, Redux, Express.js, MongoDB

[Live](#) | [GitHub](#) | [Demo](#)

- Delivered an **event management tool** for SSF Kerala, supporting participant/team registration, mark lists, and overall team marks in 3 days
- Increased performance by 70% using **memoization** and reduced API calls by 80% with efficient state management
- Enhanced load times with **lazy loading** and **code splitting**, ensuring better user experience
- Implemented **JWT authentication** to secure the application and protect sensitive data
- **Tech Stack:** **React**, Redux, Node.js, Express.js, MongoDB, JWT

• URL-shortener

NestJS, MongoDB, React

[Live](#) | [GitHub](#) | [Demo](#)

- Developed a **URL shortener** with user authentication, click tracking, and a personalized dashboard for managing shortened URLs
- Gained expertise in **NestJS** by applying modular architecture and **dependency injection**, with **JWT** for secure authentication
- **Tech Stack:** NestJS, MongoDB, React, JWT

• Ace-Quiz: Quiz Application

Next.js, MongoDB, Redux, Express.js, Node.js

[Live](#) | [GitHub](#) | [Demo](#)

- Built a scalable **quiz application** with **Next.js** and **Clean Architecture**, ensuring maintainability and modular design
- Implemented **Redux Toolkit** for efficient state management and **Radix UI** for accessible component design
- Automated testing and deployment with **GitHub Actions**, improving development workflow
- **Tech Stack:** Next.js, MongoDB, Redux, Node.js, Express.js, GitHub Actions

• OLX & Netflix Clones

React, Firebase, TMDb API

[GitHub \(OLX\)](#) | [GitHub \(Netflix\)](#)

- Developed fully responsive **OLX** and **Netflix clones** with **React**, integrating **Firebase** for authentication and data storage
- Integrated **TMDb API** for real-time movie data in the Netflix clone and built secure image upload functionality in the OLX clone
- Managed application state using **Context API**, ensuring efficient data flow and performance
- **Tech Stack:** React, Firebase, TMDb API, Context API

EDUCATION

• BroTOTYPE

MERN Stack Development

2023 - Present

Kozhikode, Kerala

• SNGHSS, chelannur

Higher Secondary (Science)

2021 - 2023

Kozhikode, Kerala