MUHAMMED SINAN

MERN Stack Developer

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</> LeetCode | 🌐 Portfolio

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, CSS
- **Frameworks:** Node.JS, ExpressJS, NestJS, NextJS, TailwindCSS
- **Database:** MongoDB, PostgreSQL
- **Libraries:** ReactJS, Socket.io, WebRTC, Redux, React-query, ThreeJS, Framer motion, Axios, JWT, GoogleAi, OpenAi, OAuth 2.0, Nuqs
- **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

• Readify: Article Management Platform

Next.js 15, React 19, MongoDB, Cloudinary   Live | GitHub

○ Developed a **content discovery platform** that allows users to discover, read, and manage articles effortlessly

○ Integrated **Cloudinary** for efficient image handling, enabling easy image uploads and management

○ Achieved optimized performance and accessibility with **Next.js 15** and **TailwindCSS**, ensuring a responsive UI with light/dark theme switching

○ Implemented **Nuqs state management** for efficient pagination and smooth user experience

○ Secured platform access using **JWT authentication**, ensuring user privacy and data protection

- **Features:** Anonymous posting, personalized feed, debounced search, like & share options
- **Tech Stack: Next.js**, TypeScript, Cloudinary, MongoDB, JWT, React Hook Form, Zod, React Query

- **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

OPEN SOURCE CONTRIBUTIONS

- **Strapi**
  Security Improvements   Website | GitHub
  - Collaborated with the Strapi team to address security issues in the open-source headless CMS
  - Contributed to ongoing security enhancements, with specific details to be disclosed upon official release

- **Impler.io**
  Security Enhancements   Website | GitHub
  - Identified and resolved critical security vulnerabilities related to password hashing
  - Improved the platform's security infrastructure by implementing robust password protection mechanisms

- **Origin UI**
  Component Development   Website | GitHub
  - Contributed to the **Origin UI** open-source project by developing and adding new components
  - Enhanced the project's component library, improving its utility and flexibility for developers

EDUCATION

- **Brototype**   *2023 - Present*
  MERN Stack Development   Kozhikode, Kerala
- **SNGHSS, chelannur**   *2021 - 2023*
  Higher Secondary (Science)   Kozhikode, Kerala