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:** Docker, 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

OPEN SOURCE CONTRIBUTIONS

- **Strapi**

  Security Improvements   Website | GitHub
  - ◦ Contributed a critical security enhancement to the open-source headless CMS, improving its compliance with modern security practices
  - ◦ Submitted **1 pull request**, which is currently under review and set for an upcoming release

- **Impler.io**

  Security Enhancements   Website | GitHub
  - ◦ Identified and resolved **2 critical security vulnerabilities** related to password hashing, improving the platform's authentication robustness
  - ◦ Submitted **2 pull requests**, both merged and deployed, addressing password length validation and hashing performance issues

- **Origin UI**

  Component Development   Website | GitHub
  - ◦ Contributed **2 new UI components** to the Origin UI open-source library, enhancing its flexibility and accessibility for developers
  - ◦ Added new **button components** to the library, improving its offerings for developers

EDUCATION

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