MUHAMMED SINAN

MERN Stack Developer

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ABOUT ME

Results-oriented MERN Stack Developer with practical expertise in designing, building, and deploying scalable web applications. Skilled in crafting robust, secure, and user-centric solutions leveraging MongoDB, Express.js, React.js, and Node.js. Committed to optimizing performance, maintaining clean architecture, and integrating emerging technologies to drive impactful results.

SKILLS

- Languages: JavaScript, TypeScript, SQL, HTML, CSS
- Frameworks: Node.js, Express.js, Nest.js, Next.js, TailwindCSS
- Database: MongoDB, PostgreSQL
- Libraries: React.js, Socket.io, WebRTC, Redux, React-query, Three.js, Framer Motion, Axios, JWT, GoogleAI, OpenAI, OAuth 2.0, Nuqs
- Platforms: AWS, GitHub, Render, Vercel, Firebase, Cloudinary
- Tools: Docker, Git, GitHub Actions, CI/CD, Winston, ESLint, NPM
- Concepts: Clean Architecture, MVC Architecture, SOLID Principles, Agile Methodologies
- Others: Self-driven, Leadership, Multitasking

PROJECTS

AVM Ayurvedic: Hospital Management Platform

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

Live | GitHub | Demo

- Engineered an **AI-powered hospital management platform** for Ayurvedic consultations, integrating secure video calls, booking, and payment systems.
- Enhanced frontend with **Next.js** and **TailwindCSS**, achieving 90+ scores in **Google Lighthouse** for SEO, performance, and accessibility.
- Enabled real-time video consultations using WebRTC and SimplePeer, improving user engagement.
- Designed a secure backend architecture using **Node.js**, **Express.js**, and **MongoDB**, adhering to **Clean Architecture** principles.
- Deployed the platform on AWS and Vercel, implementing CI/CD pipelines via GitHub Actions.
- Integrated role-based access control (RBAC) to manage user authentication and permissions.
- Tech Stack: Next.js, TypeScript, WebRTC, TailwindCSS, Node.js, Express.js, MongoDB, Stripe, JWT, OAuth 2.0, AWS.

Trends: E-commerce Platform

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

Live | GitHub | Demo

- Delivered an **e-commerce platform** with robust authentication, wallet management, and dynamic discount systems.
- Streamlined payment integrations using Razorpay with order tracking and coupon management.
- Built an **admin panel** for product, category, and order management, incorporating sales analytics and PDF invoice generation.
- Enhanced customer support with real-time communication via WebSockets.
- Tech Stack: Node.js, Express.js, MongoDB, EJS, Razorpay, PDFKit, JWT.

Readify: Article Management Platform

Next.js 15, React 19, MongoDB, Cloudinary

Live | GitHub

- Built a **content discovery platform** enabling users to discover, post, and engage with articles anonymously.
- Incorporated **Cloudinary** for seamless image handling and optimized performance with **Next.js 15** and **TailwindCSS**.
- Leveraged Nuqs state management for efficient pagination and improved user interaction.
- Secured platform access via **JWT**, ensuring data protection and privacy.
- Tech Stack: Next.js, TypeScript, Cloudinary, MongoDB, JWT, React Hook Form.

Sahithyolsav Manager: Event Management Tool

React, Redux, Express.js, MongoDB

Live | GitHub | Demo

- Designed an event management tool supporting participant/team registration and performance tracking.
- Enhanced performance by reducing API calls by 80% through efficient state management.
- Applied lazy loading and code splitting to improve load times.
- Tech Stack: React, Redux, Node.js, Express.js, MongoDB, JWT.

OPEN SOURCE CONTRIBUTIONS

Strapi: Security Improvements

Headless CMS Platform Website | GitHub

- Developed a critical **security enhancement** to strengthen compliance with modern security standards.
- Submitted a pull request under review, addressing security vulnerabilities in the authentication mechanism.

• Impler.io: Authentication Enhancements

Data Importation Platform Website | GitHub

- Identified and resolved 2 critical vulnerabilities in password hashing, improving platform security.
- Submitted and merged **2 pull requests**, implementing stronger password validation and optimized hashing algorithms.

Origin UI: Component Development

Open-Source UI Library Website | GitHub

- Contributed 2 new UI components, enhancing the library's usability and accessibility for developers.
- Designed and implemented custom button components, broadening the component library offerings.

EDUCATION

• Brototype MERN Stack Development

• SNGHSS, chelannur Higher Secondary (Science) 2023 - Present Kozhikode, Kerala 2021 - 2023 Kozhikode, Kerala