

# MUHAMMED SINAN

MERN Stack Developer

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## PROFILE SUMMARY

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** [Live Link](#) | [GitHub](#) | [Demo](#)
  - AVM Ayurvedic is a wellness platform offering AI-powered health insights and Ayurvedic consultations. It features video consultations, secure payments, real-time notifications, and role-based access for different users. The platform ensures a seamless and secure experience for users seeking Ayurvedic wellness services.
  - 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.
  - **Technologies used:** Next.js, TypeScript, WebRTC, TailwindCSS, Node.js, Express.js, MongoDB, Stripe, JWT, OAuth 2.0, AWS, ShadcnUI, S3 Bucket, GitHub.
- **Trends: E-commerce Platform** [Live Link](#) | [GitHub](#) | [Demo](#)
  - Trends is an e-commerce platform that provides secure shopping experiences with features like easy product management, secure payments and personalized cart and wishlist. The platform also includes an admin panel for efficient sales and product management.
  - Streamlined payment integrations using **Razorpay** with order tracking and coupon management.
  - The platform is fully customizable, featuring dynamic filters and banners.
  - 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 **Polling**.
  - **Technologies used:** Node.js, Express.js, MongoDB, EJS, Razorpay, PDFKit, JWT.

## MINI PROJECTS

- **Readify: Article Management Platform** [Live Link](#) | [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.
  - **Technologies used:** Next.js, TypeScript, Cloudinary, MongoDB, JWT, React Hook Form.

- **Sahithyolsav Manager: Event Management Tool** [Live Link](#) | [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.
  - **Technologies used:** React, Redux, Node.js, Express.js, MongoDB, JWT.
- **URL Shortener** [Live Link](#) | [GitHub](#)
  - Developed a **URL shortening platform** that allows users to generate and manage short links effortlessly.
  - Enhanced performance and scalability by leveraging **NestJS** for the backend and **MongoDB** for data storage.
  - Included link analytics to track clicks, expiration dates, and usage trends.
  - **Technologies used:** NestJS, React, MongoDB, JWT.
- **Ace-Quiz: Quiz App** [Live Link](#) | [GitHub](#) | [Demo](#)
  - Ace-Quiz is a scalable quiz application built with Next.js and TypeScript, following Clean Architecture principles for maintainable code.
  - Integrated **Radix UI** and **Redux Toolkit** for efficient state management and smooth UI experience.
  - Implemented **CI workflows** for streamlined deployment and testing with GitHub Actions.
  - Focused on modular code organization and scalability, ensuring flexibility for future improvements and features.
  - **Technologies used:** Next.js, MongoDB, Node.js, Express.js, TypeScript, Clean Architecture.

## OPEN SOURCE CONTRIBUTIONS

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- **Strapi: Security Improvements** [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** [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** [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

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