

# MUHAMMED SINAN

MERN Stack Developer

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 [Portfolio](#) |  [LeetCode](#)

## 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

- **Core Stack:** TypeScript, JavaScript, Node.js, React, Next.js, Express.js, Nest.js, MongoDB, PostgreSQL, React - Native
- **Specialized:** WebRTC, Socket.io, Redis, Docker, AWS, Microservices, Clean Architecture
- **AI & Modern Tools:** OpenAI, Google AI, Huggingface, Stripe, OAuth 2.0, JWT, Shadcn UI
- **DevOps & Quality:** GitHub Actions, CI/CD, Jest, Biome, Turbopack, Nginx

## EXPERIENCE

- **Software Engineer** Full-time  
*Codecords* Mar 2025 - Present
  - Developing and maintaining full-stack web applications using TypeScript and JavaScript across various modern frameworks and databases.
  - Helped multiple clients integrate AI capabilities into their applications, enhancing functionality and user engagement.
  - Optimized system performance for several clients, achieving significant improvements in speed and efficiency.
  - Collaborating with cross-functional teams to design, develop, and deploy scalable solutions for diverse client requirements.
  - Implementing RESTful APIs and integrating third-party services to enhance application functionality and user experience.
  - Writing clean, maintainable code following industry best practices, SOLID principles, and clean architecture patterns.
  - Participating in code reviews, technical documentation, and contributing to development process improvements.

## PROJECTS

- **Clean Auth Template: Full-Stack Authentication System** [Documentation](#) | [GitHub](#) | [NPM](#)
  - Built a production-ready authentication template with **clean architecture** principles, achieving **40+ GitHub stars** and multiple community forks.
  - Developed a **CLI tool** (published on NPM) for scaffolding projects with automated setup and configuration commands.
  - Implemented comprehensive authentication flows including email/OTP verification, OAuth, and JWT token management.
  - Designed **role-based access control (RBAC)** system with user and admin roles, including protected routes and middleware-based authorization.
  - Created automated **CI/CD pipeline** with GitHub Actions for testing, security audits, and dependency management.
  - Integrated **end-to-end testing** suite covering authentication flows, API endpoints, and user interactions for reliability.
  - Integrated security best practices including hashing, HTTP-only cookies, rate limiting, and CORS configuration.
  - Built comprehensive documentation site and developer-friendly API with RESTful endpoints for authentication and user management.
  - **Technologies:** Next.js 15, React 19, Node.js, Express.js 5, TypeScript, MongoDB, Firebase OAuth, Tailwind CSS, Shadcn UI, JWT, Nodemailer, Zustand, React Query.
- **AVM Ayurvedic: Hospital Management Platform** [Live Link](#) | [GitHub](#) | [Demo](#)
  - Built a wellness platform with AI-powered health insights, Ayurvedic consultations, video calls, secure payments, real-time notifications, and role-based access for seamless user experience.
  - Optimized frontend using **Next.js** and **TailwindCSS**, achieving high **Google Lighthouse** scores.

- Earned **GitHub community recognition** for clean code and architecture (30+ stars and 6+ forks).
  - Implemented real-time video consultations with **WebRTC** and SimplePeer for enhanced engagement.
  - Added real-time notifications and AI-driven chat using **WebSocket** and **Gemini Flash**.
  - Designed secure backend with **Node.js**, **Express.js**, and **MongoDB**, following **Clean Architecture**.
  - Deployed on **AWS** and **Vercel** with CI/CD via **GitHub Actions**.
  - Integrated **RBAC** for user authentication and permissions.
  - **Technologies:** Next.js, TypeScript, WebRTC, Socket.io, TailwindCSS, Node.js, Express.js, MongoDB, Stripe, JWT, OAuth 2.0, Gemini, AWS, ShadcnUI, S3 Bucket, GitHub.
- **Trends: E-commerce Platform** [Live Link](#) | [GitHub](#) | [Demo](#)
- Developed an e-commerce platform with secure shopping, product management, payments, cart, wishlist, and an admin panel for sales and product oversight.
  - Integrated **Razorpay** for payments with order tracking and coupon management.
  - Built customizable platform with dynamic filters and banners.
  - Created an **admin panel** for managing products, categories, orders, sales analytics, and PDF invoice generation.
  - Enhanced customer support with real-time **Polling**-based communication.
  - **Technologies:** Node.js, Express.js, MongoDB, EJS, Razorpay, PDFKit, JWT.

## OPEN SOURCE CONTRIBUTIONS

- **Gemini CLI: Server Contributions** [GitHub](#)
- Developed and implemented a new **copyprompt command**, enhancing user workflow efficiency and prompt management capabilities.
  - Contributed to server-side functionality, improving the CLI's core command processing and user interaction features.
- **Strapi: Security Improvements** [Website](#) | [GitHub](#)
- Fixed a critical security vulnerability (CVE-2025-25298) in password management related to weak password length validation.
  - Resolved bcrypt.js hashing limitation where passwords exceeding 72 bytes were truncated, improving authentication security.
- **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.
- **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.

## EDUCATION

- **MERN Stack Development** 2023 - Present  
*Prototype, Kozhikode, Kerala* [Certificate](#)
- **Higher Secondary (Science)** 2021 - 2023  
*SNGHSS, chelannur, Kozhikode, Kerala*