Muhammed Nihal.K

MERN Stack Developer

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Profile Summary

Results-driven MERN stack developer with 1+ years of experience building scalable web applications. Expertise in React, Redux, Node.js, Express, Nextjs and MongoDB , with proven ability to deliver responsive, user-centered solutions. Skilled in performance optimization, RESTful API design, and implementing secure authentication systems. Committed to clean code practices and continuous learning.

Technical Skills

Programming Languages: JavaScript, TypeScript
Frontend Technologies: React.js, Next.js, Redux, Zustand, HTML5, CSS3, Tailwind CSS, Material UI
Backend Technologies: Node.js, Express.js, MongoDB, MongoDB Atlas
Cloud & Deployment: AWS S3, Vercel, Render
Tools & Libraries: Git, GitHub, Postman, Socket.IO, Multer, Nodemailer, Trello
Integrations: JWT Authentication, OAuth2/Google Auth, Stripe, Razorpay, Cloudinary, JemniAI

Professional Experience

Bridgeon Solutions, MERN Stack Developer Intern   May 2024 – present │ Calicut, india
- Optimized MERN stack applications to enhance system performance and ensure a seamless user experience for a growing user base.
- Engineered responsive UI components achieving cross-browser compatibility across platforms
- Refactored and optimized MongoDB queries, significantly improving response times and scalability for high-traffic endpoints.
- Designed and implemented a scalable RESTful API architecture, ensuring high availability, efficiency, and smooth dataflow across services.
- Orchestrated sprint deliverables and scrums within agile framework,helps to achieving 100% on-time project completion

Projects

VitalAid, Healthcare Management Platform (Team Project) 🔗   January 2025 – February 2025

Overview: A comprehensive healthcare management application designed to bridge the gap between health and care professionals and patients in purticular area. The platform is administered by a dedicated management team to ensure quality care delivery.

My Contributions:
- Engineered **responsive frontend** using **Tailwind CSS** and **Material UI**, delivering **intuitive healthcare interfaces** for diverse user needs.
- Implemented **JWT** and **Google authentication** for secure user access and registration.
- Developed **real-time communication system** with **Socket.IO**, enabling **instant doctor-patient consultations** and **streamlined care coordination**.
- Integrated **JemniAI** for **automated health report generation**, enhancing **diagnostic accuracy**
- Implemented **AWS S3** for Image Handling
- Optimized **state management** with **TanStack Query** and **Redux**, reducing **load times** while handling **complex healthcare data**.
- Architected **role-based access control** with dedicated modules for **patients**, **healthcare providers**, and **administrators**, increasing **platform security** and **user satisfaction**.

Technologies: Next.js, TypeScript, Redux, TanStack Query, Tailwind CSS, Express, MongoDB ,MUI
Key Features: Socket.IO, AWS S3, JemniAI, Google Auth, Nodemailer ,Razorpay

ownbnb, Property Rental Marketplace (Individual Project) 🔗   December 2024 – January 2025

Overview: A comprehensive clone application of Airbnb built using the MERN Stack. This full-featured platform allows property owners to list their spaces and travelers to discover and book accommodations

Key Achievements
- Developed a **full-stack Airbnb clone** with **React.js** frontend and **Express.js** backend.
- Implemented **property listing management** for hosts with booking status tracking.
- Integrated **Stripe payment gateway** for secure booking transactions.
- Created **responsive booking interface** using **Tailwind CSS**
- Built functionality for **guests** to search, view, and book properties.
- Deployed application using **Vercel** (frontend) and **Render** (backend).

Technologies: React.js, Node.js, Express.js, MongoDB
Key Features: Stripe Payments, Google Auth, Tailwind CSS

Education

Calicut University, Bachelor Of Commerce   2021 – 2024