Mohammed Irfan

Full Stack Developer

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PROFESSIONAL SUMMARY

MERN Stack Developer specializing in MongoDB, Express.js, React.js, and Node.js. Experienced in creating responsive web applications, RESTful APIs, and implementing JWT authentication. Strong skills in Redux, MongoDB optimization, and React architecture. Proven ability to deploy scalable solutions.

SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript, Redux, Zustand, TailwindCSS, ShadCN
Backend: Node.js, Express.js, MongoDB, REST API, Socket.io
Tools & Technologies: Git, Docker, React Query, Figma, NPM

EXPERIENCE

Full Stack Developer August 2024 – Present
BridgeOn, Malappuram, Kerala

- Completed 3 major full-stack projects using Next.js, TypeScript, React.js, Node.js, Express.js, and MongoDB; delivered robust, scalable features aligned with project requirements.
- Led a 4-member development team in Agile workflows, managing sprint planning, daily stand-ups, and facilitating iterative feature delivery to enhance team collaboration and increase project velocity.
- Utilized Git for version control, managed branching strategies, code merges, and pull requests, supporting a robust CI/CD pipeline and ensuring seamless team integration.

PROJECTS

SCOPEO – Real-Time Monitoring & AI-Powered Error Analysis February 2025 – April 2025
A comprehensive website monitoring platform that tracks server health, uptime, and errors through custom SDK integration.

- **Authentication:** Incorporated **NextAuth.js** with **Google OAuth** and token-based authentication; utilized **Zod** for robust input validation, enhancing security and reducing authentication vulnerabilities.
- **Live Dashboard:** Engineered using **Next.js 15** and **WebSockets** for real-time data updates with minimal latency; enabled adaptive server health visualization.
- **AI-Powered Error Analysis:** Developed solutions that automatically detect, analyze, and suggest fixes for common errors, reducing debugging time significantly during development.
- **Scalable Backend:** Architected with Express (TypeScript), leveraging Redis caching to reduce read latency by up to 90%, integrated MongoDB for persistent storage, and configured Cron Jobs for scheduled background processing.
- **Link:** github.com/scopeo-tech/scopeo-monitor

SCOPEO Monitoring Library (Open Source & Published) February 2025 – April 2025
A lightweight, class-based monitoring library designed to track and report system performance metrics efficiently.

- **Uptime & Downtime Monitoring:** Established continuous tracking of service availability with 99.94% accuracy, logging uptime statistics based on 3-minute check intervals over the course of 1 month.
- **Latency & Response Time Analysis:** Created an algorithm that analyzes API response times with millisecond precision, identifying performance bottlenecks.
- **Request & Traffic Statistics:** Constructed a monitoring system for tracking request counts, response codes, and error rates across multiple endpoints.
- **System Resource Monitoring:** Built lightweight modules for CPU, memory, and load monitoring with low resource overhead, ensuring minimal impact on host system performance.
- **Link:** github.com/scopeo-tech/scopeo-package

Instagram Clone App December 2024 – February 2025
Full-stack social media platform with authentication, media sharing, and personalized feeds.

- **Real-time Chat:**Engineered a WebSocket-based messaging system capable of handling concurrent connections with low latency.
- **Follow System:** Programmed a controller that efficiently manages user relationships and activity tracking, optimizing follow/unfollow operations based on user interactions and popular accounts.
- **Media Upload:** Integrated Cloudinary for media storage, supporting 3+ file formats.
- **Link:** github.com/MohammedIrfan244/instagram_clone

EDUCATION

Bachelor of Science in Mathematics October 2021 – March 2024
University of Calicut, Kerala, India Graduated with 6.1 CGPA (Scale: 10)