Mohammed Irshad P P

MERN Stack Developer

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Profile Summary

Experienced MERN stack developer with 1.5+ years of expertise in building high-performance, scalable web applications. Proficient in crafting responsive user interfaces that elevate user experience and maintaining security-focused backends. Passionate about learning, adapting to new technologies, and solving complex challenges.

Technical Skills

- **Front-End Development:** JavaScript, TypeScript, React, Redux, shadcn, Material UI, HTML, CSS, Bootstrap, Tailwind CSS

- **Back-End Development:** Node.js, Express.js, Microservices, Monolithic Architecture, SOLID Principles, MVC Architecture, REST APIs, NATS, RabbitMQ

- **Databases:** MongoDB, PostgreSQL, Firebase, Redis

- **DevOps and Cloud:** Docker, Kubernetes, AWS, DigitalOcean, Jenkins, Helm, Git, GitHub, GitHub Actions, CI/CD

- **Testing and QA:** Jest, Supertest, React Testing Library, Postman

- **Familiar With:** Data Structures, Figma

Projects

ManageX: Company Management System

Live — GitHub

A robust web application that streamlines company management processes, including employee onboarding, salary management, leave tracking, project collaboration, and client relationship management. Built on a Microservices architecture with a customized MVC design for modular, maintainable code adhering to SOLID principles.

Key Features:

- **Employee Management:** Manages onboarding, salary tracking, and leave requests.

- **Project Management:** Provides tools for task collaboration and organized to-do lists to boost productivity.

- **Client Management:** Facilitates lead and deal tracking to support business growth.

- **Real-Time Communication:** Supports instant messaging with Socket.IO and group video calls using WebRTC, enhancing collaboration. Users can share images, videos, and text messages securely via Cloudinary.

Deployment and Infrastructure:

- All services containerized with Docker, deployed on Kubernetes in DigitalOcean for scalability and security.

- CI/CD pipelines implemented with GitHub Actions and Jenkins, streamlining development and deployment.

Technologies Used: Node.js, Express.js, MongoDB, React.js, Redux, TypeScript, RabbitMQ, amqplib, Microservices, MVC Design, WebRTC, Socket.IO, OAuth 2.0, JWT with cookies, Docker, Cloudinary, Recharts, Stripe, Git.

eStore: E-Commerce Platform

Live — GitHub

A feature-rich e-commerce web application that covers essential functionalities including payments, order management, product cataloging, and user wallets. Organized with MVC architecture for maintainable code.

Key Features:

- **User Experience:** Features an intuitive shopping cart, seamless checkout, multiple payment methods, and options for users to modify or cancel orders.
- **Admin Panel:** Robust admin dashboard with tools for managing products, orders, and user accounts.
- **Secure Payment Integration:** Integrated with Razorpay for reliable, secure transactions.
- **Scalable Deployment:** Hosted on AWS EC2 using Nginx, Certbot, and PM2 for reliability, security, and scalability.

Technologies Used: Node.js, Express.js, MongoDB, EJS, Redux, Nodemailer, OAuth 2.0, Razorpay, Sessions, Multer, HTML, AWS EC2, Nginx, Chart.js, Git.

Education

- **MERN Stack Development**   2023 - Present
  Brototype, Calicut, Kerala

- **B.Sc. in Computer Science**   2019 - 2022
  KMCT Arts and Science College, Kuttippuram, Kerala

- **Higher Secondary in Computer Science**   2017 - 2019
  SMMHSS Rayirimangalam, Tanur, Kerala