Muhammed Swalih MC

MERN Stack Developer

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Summary

Experienced MERN Stack Developer with a strong foundation in full-stack web development. Skilled in Firebase integration, AWS deployment, modern Figma design practices, and a broad tech stack including Node.js, MongoDB, PostgreSQL, React, Redux, TypeScript, and more.

Technical Skills

- **Languages:** TypeScript, JavaScript (ES6+), HTML, CSS
- **Frontend:** React.js, Redux, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, Firebase, MongoDB, PostgreSQL
- **Tools:** Figma, Photoshop, Postman
- **Other:** Razorpay Integration, Google & OTP Authentication
- **Cloud & Deployment:** AWS, Vercel, Render
- **DSA:** Proficient in data structures and algorithms with strong problem-solving skills

Experience

MERN Stack Developer   Freelance / Personal Projects

- Built and deployed e-commerce platforms with secure authentication and payment workflows.
- Developed interactive applications such as a memory game and a real-time group video chat app.
- Designed and hosted scalable applications using AWS, Vercel, and Render.

Projects

E-commerce Website   **Live Demo**

- Developed a full-stack e-commerce website using **Node.js**, **Express**, **MongoDB**, **EJS**, and **CSS**.
- Implemented user authentication with **Google OAuth** and **OTP-based login**, secure order flow, and **Razorpay payment gateway** integration.
- Built a modular and scalable **REST API** for managing products, orders, and user data.
- Created dynamic admin dashboards with Excel/PDF **sales reports**, data analytics, and interactive charts using **Chart.js**.

Flat Management System

- Developed a tenant and rent management system using **Node.js**, **Express**, **MongoDB**, **EJS**, and **CSS**.
- Designed role-based access for admin with dynamic views using **EJS templating**.
- Implemented real-time rent tracking, tenant CRUD operations, and property listings.
- Integrated **PDF** and **Excel** report generation for financial summaries and visual dashboards using charts.

AI Image Generator   **Live Demo**

- Developed an AI-based image generator using **HTML**, **JavaScript**, and external **API**.
- Implemented user input customization for prompt-based image creation.
- Enabled image download and designed a clean, responsive UI for a seamless user experience.

Memory Game   Live Demo

- Built an interactive memory game using **React.js**, featuring dynamic gameplay and state management.
- Implemented card-matching logic with real-time updates and win condition tracking.
- Integrated responsive UI with smooth animations and visual transitions.
- Utilized React hooks for component state and effect handling.

Group Video and Audio Chat App   Live Demo

- Developed a real-time group communication platform using **React.js**, **WebRTC**, **Socket.IO**, and **Node.js**.
- Implemented peer-to-peer video and audio streaming with dynamic user handling and signaling.
- Designed a fully responsive, dark-themed UI with consistent media quality and connection stability.
- Managed signaling and room logic through Socket.IO and custom WebRTC hooks.

Flame Zero (Ongoing)

- Developing a full-stack project using **React.js** with **TypeScript** for a scalable and type-safe frontend.
- Implementing secure authentication with **Google OAuth**, **Phone Authentication**, and **OTP verification**.
- Building real-time communication features with **Socket.IO**.
- Managing global state efficiently with **Redux**.
- Utilizing **Firebase** for backend services and authentication, and **Redis** for fast and reliable OTP handling.
- Integrating **Cloudinary** for optimized image upload and management.
- Securing APIs and user sessions with **JWT authentication**.

User Management System (Admin + User)

- Built using **TypeScript**, **Node.js**, **Redux**, **JWT Authentication**, and **MongoDB**.
- Implemented admin dashboard for user CRUD, role management, and validations.

Netflix Clone

- Built a Netflix-inspired streaming UI using **React.js**, **Firebase Authentication**, and external movie **APIs**.
- Integrated YouTube trailer previews and dynamic content fetching.
- Styled with **styled-components** to achieve a responsive and modern design.

OLX Clone

- Developed a buy-sell platform using **React.js**, **Firebase**, and **Cloudinary** for image uploads.
- Enabled users to post, view, and filter listings in real time with a responsive UI.
- Implemented secure image handling and form validation using **TypeScript**.

Education

Bachelor of Arts in Sociology   2023
Calicut University, Malappuram, Kerala