Emil Shiju

Mern Stack Developer

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Professional Summary

Passionate MERN Stack Developer with experience building responsive, scalable web applications. Skilled in designing RESTful APIs, managing databases, and implementing secure authentication. Adept at integrating frontend and backend components for smooth user experiences. Experienced with Git, deployment workflows, and performance optimization. Strong team collaborator with a focus on clean, maintainable code. Quick learner, always eager to explore emerging technologies and deliver high-quality, user-centric software solutions on time.

Technical Skills

- Language and frameworks : JavaScript, TypeScript, Express.js, NextJs .
- Front-end Development : HTML, CSS, React.js, Tailwind CSS, Bootstrap, Redux, Figma, Redux Toolkit
- Back - end Development : Node.js, Express.js, MongoDB, Mongoose, Clean Architecture.
- Familiar with : WebArtc,Git, GitHub, Postman, Data Structures and Algorithms, Nginx, NoSQL, Firebase, AWS, Razorpay, Firebase, Socket.IO, SOLID Principles, JWT.

Projects

Near By Chat - Connecting Random Peoples   ClientSide || Server Side git
Live Website

NearbyChat is a NearbyChat is an Web platform connecting global users in real-time via video and chat, using WebRTC for live interactions and advanced user matching algorithms.

- Implemented algorithms for finding random people for real-time communication and utilized geometric queries to connect nearby users effectively.
- Developed a feature enabling users to connect with random individuals worldwide, facilitating real-time video calls and chat using WebRTC and socket.
- IThe Mapbox to show users based on the search radius and lets you connect and chat with them , implemet Using Socket.io . Razorpay handle premium subscriptions for extra searches .
- Implemented push notifications to re-engage users with search functionality after a specific time interval, using cron jobs to automate notifications and improve user retention.
- Configured a TURN server using Coturn on AWS for video call connections, utilizing a subdomain for management. Ensured code is well-maintained and the project is hosted on an AWS EC2 instance.

Technologies used: Node.js, TypeScript, React.js, Express.js, Redux, JWT, MongoDB, Mapbox, WebArtc, Clean Architecture, Turn Server , Geometric Queries, Algorithm for Random User Matching

Props24 - Discover Trusted Agents   ClientSide || Server Side git
Live Website

Props24 is a web app that helps real estate users find suitable agents or agencies based on their needs. Agents can list properties, with admin panel moderation.

- Props24 allows users to find the ideal real estate agents and agencies based on their preferences. A specialized algorithm helps filter the results to match user needs.
- Real estate agents or agencies can register their profiles on the website. They can add featured properties and detailed information, which will be displayed under their profile after successful registration.

- To ensure trust, agents and agencies must undergo admin verification after registration. Only verified profiles are visible and accessible to users on the platform. Users can also write reviews to share their experience.
- An admin-side interface is provided to verify agent and agency registration requests based on submitted details. Admins can block users based on reports, add major cities with relevant details, and manage specializations available for agent selection.

Technologies used: Next.js, TypeScript, PostgreSQL, Algorithm to find the agents, Tailwind CSS, Next.js Image Component, Yup, Formik, Axios, JWT, Nodemailer

Mini Projects

TechTrove E-Commerce Web Application   Github
- Built using Node.js, Express.js, MongoDB, and Hbs; deployed on AWS EC2 with Route53.
- includes features like product listing, cart management, coupon system, order tracking.

Netflix - Video streaming platform   Github
- It's a real time netflix clone build with react and TMDB API.
- It also includes live movie trailer playing with React Player.

OLX - Buy and sell products   Github
- User interactive platform to buy or sell products.
- Integrated firestore database and utilized firebase authentication for seamless user experience.

Blog Application   Github
- Users can create, edit, update, and delete their own blogs.
- Users can manage their profiles and store images using Firebase. .

Technical Blog Contributions

Blog Link
- **WebRTC Explained**: Published articles detailing WebRTC architecture and peer-to-peer communication protocols. Reached over 5,000 views, aiding developers in mastering real-time communication.

Education

MERN Stack Development , Brototype, Ernakulam   2023 - Present

Higher Secondary - Science(Computer Science) ,
ST JOSEPH - Higher Secondary School, Angamaly