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**Hello, My name is Sandeep pr.** I hold a **Diploma in Computer Science and Engineering** and I have **Bachelor's degree from IGNOU** .

I recently completed an **internship at Logiprompt Techno Solution Pvt Ltd,trivandrum**, where I gained hands-on experience in **full-stack development**. During my internship,

**I have primarily focused on front-end development using React.js, Tailwind CSS, and JavaScript. Additionally, I have contributed to back-end development tasks, utilizing Node.js, Express.js, and MongoDB to deliver scalable and user-friendly web applications.**

**Cryptomath:**

The Cryptomath Management System is an educational platform designed to support students, teachers, and parents, with a focus on students with disabilities. It includes four modules: Admin, Teacher, Parent, and Student.

The Admin module manages teachers, students, and feedback while assigning educational games. Teachers can track student progress, assign activities, and communicate with parents. Parents can register, provide feedback, monitor student performance, and handle fee payments. Students engage with interactive games to enhance learning.

This system fosters inclusive education, improving communication and accessibility for students with special needs, ensuring personalized learning and better academic outcomes.

**react,mongodb, jwt,bootstrap,css, Netlify and render**

**Design: mvc**

Authentication,autherization : session(backend)

Services: api services ne patti

**Media-Mate**

It's an social media platform for images and text upload. And in user can like , share and comment posts ....

Context api use cheythitund (for state management)

**(React, tailwind css , firebase, mongo db, mui, nodejs, express, socket.io)**

**1. Why are two databases (Firebase and MongoDB) used in this project?**

In MediaMate, both Firebase and MongoDB are used for different purposes to optimize performance, scalability, and real-time functionality:

**Firebase (Realtime Database & Storage):**

Used for storing chat messages and media files (images, emojis, etc.).

Firebase provides real-time data synchronization, which is essential for chat functionality.

Helps reduce server load by managing real-time updates efficiently.

Firebase Storage is used to store images, and only the image URLs are saved in MongoDB.

**MongoDB (NoSQL Database):**

Used for storing structured user data, posts, comments, and relationships (follows/unfollows).

More suitable for querying and managing user profiles, posts, and interactions.

Provides better indexing and scalability for complex queries, such as fetching posts from followed users.

**Reason for Using Both:**

Firebase is ideal for real-time features like chat, while MongoDB is better for structured data storage.

Combining both databases ensures scalability, performance optimization, and a seamless user experience.

**2. Why is Google Cloud Authentication Used?**

Google Cloud Authentication is integrated to provide a secure and seamless login experience for users. Here’s why it was chosen:

**Ease of Access**: Users can log in with their Google accounts instead of manually creating an account, reducing friction.

**Security**: Google provides OAuth 2.0-based authentication, ensuring strong security and protection against unauthorized access.

**Faster Authentication**: Google authentication is fast, reliable, and widely used, improving user trust and experience.

**Automatic User Profile Data**: When users log in with Google, basic details like name and email are automatically retrieved, reducing the need for manual input.

**Firebase Integration**: Google authentication is seamlessly integrated with Firebase Authentication, ensuring secure session management and account verification.

By using Google Cloud Authentication, MediaMate ensures a secure, scalable, and user-friendly login system that enhances user onboarding and data protection.

**What is Context API?**

The Context API is a built-in state management solution in React that allows data to be shared across components without the need for prop drilling. It provides a way to manage global state efficiently by creating a centralized store that can be accessed by any component in the component tree.

**Why Use Context API in MediaMate?**

In MediaMate, Context API is used to manage global states like authentication, user data, theme settings, and chat updates. Here’s why it is beneficial:

**1. Avoids Prop Drilling**

- Instead of passing props down multiple levels in a deeply nested component tree, Context API allows data to be accessed directly where needed.

- Example: User authentication data (like userId, displayName, profilePic) can be used in multiple components (Navbar, Profile Page, Chat Page) without manually passing it through parent components.

**2. Efficient Global State Management**

- Used to store and update authentication state, ensuring that the user stays logged in across different pages.

- Helps manage theme settings (Dark Mode/Light Mode) across the entire app.

- Keeps chat messages and notifications updated in real time without unnecessary re-renders.

**3. Reduces Complexity Compared to Redux**

- For small to medium-sized applications like MediaMate, Context API is simpler and doesn’t require additional dependencies like Redux Toolkit.

- It is lightweight, making it more efficient for managing auth state, theme, and real-time updates.

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**Tell Me About Yourself:**

**Hello, my name is Sandeep PR, and I am a passionate MERN Stack Developer.**

I specialize in **building dynamic, responsive, and user-friendly web applications** using **MongoDB, Express.js, React.js, and Node.js**. With a strong foundation in **JavaScript, RESTful APIs, and front-end development**, I enjoy working on **innovative projects that enhance user experience and solve real-world problems**.

I recently completed an **internship at Logiprompt Techno Solution Pvt Ltd**, where I gained hands-on experience in **full-stack development**. During my internship, I:  
✅ Developed and maintained **full-stack web applications**  
✅ Built **responsive user interfaces** using React.js, HTML5, and CSS3  
✅ Implemented **RESTful APIs** with Node.js and Express.js  
✅ Ensured **data security and efficiency** using MongoDB and MySQL

I hold a **Diploma in Computer Science and Engineering** and a **Bachelor's degree from Indira Gandhi National Open University**.

Some of my key projects include:

* **CryptoMath** – An interactive website designed for disabled students to engage in learning through games.
* **Airline Reservation System** – A full-stack system enabling seamless booking and flyer management.
* **E-Commerce Web App** – A shopping platform with features like product listings, filtering, and a shopping cart.

I am **always eager to learn new technologies, take on challenges, and contribute to impactful projects**. I am now looking for opportunities where I can apply my skills, collaborate with a team, and grow as a **software developer**.

**Thank you!**

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**Good [morning/afternoon], I’m Sandeep PR.**

I completed my **Diploma in Computer Science and Engineering**. After my diploma, due to my personal circumstances, I started my career in **sales and as a delivery associate**. During this time, I gained valuable experience in **understanding customer needs, solving problems, and contributing to business growth**. However, my passion for technology led me to transition into **software development**.

In my **free time, I dedicated myself to learning and improving my software development skills** by exploring new technologies, working on personal projects, and solving coding challenges. This continuous learning approach has helped me stay updated with industry trends and improve my **problem-solving abilities**.

I have **hands-on experience with the MERN stack**, including **React, Node.js, Express, and MongoDB**. I completed an **internship at Logiprompt Techno Solution Pvt Ltd**, where I worked on **full-stack projects, built RESTful APIs, and developed responsive web applications**. Additionally, I have built projects like:

* **CryptoMath** – A React-based platform designed for disabled students to engage in interactive math games.
* **E-Commerce Platform** – A React.js-based shopping application with product listings, filtering, and a shopping cart.

After successfully completing multiple projects, I have gained the **confidence to work on real-time applications**.

My previous **experience in sales** has given me **strong problem-solving and communication skills**, which I believe will help me in a software development role, especially when collaborating with teams and understanding user needs.

I am excited about the opportunity to apply my skills and grow as a **software developer** in a dynamic environment.

Thank you!

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In my life, I have seen many people who get stuck in their situations and are unable to focus on their careers due to various reasons. However, no matter the circumstances, I refuse to let anything hold me back from achieving my passion. I always aim to give my best to chasing my dreams.

Where host? Render and Netlify

Ethu design ? mvc ,

Mvvm,monorepo

Authentication,autherization : session(backend)

Services: api services ne patti

Clean code:

System design(padikkanam)

(Tanstack query,)

context api(speed kuravayirikkum compared redux) and redux (nalloru extension provide cheyyunnunde,)zustand,jotai,**signals**=> replaced redux

useeffect use cheythal bug kandupidikkan padaanu. Tanstack librarys replaced redux

algorithm-> flow chart padikkanam

code ninja site il problem solve cheythu nokkanam

**Due to some reasons I cannot stitch in IT field**