

Piyush Thakur

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github.com/Prince10z

Summary

Full Stack Developer specializing in MERN (MongoDB, Express, React, Node.js) and Flutter, building scalable apps with JWT authentication, WebRTC, and real-time Socket.io communication. Skilled in Docker, Tailwind CSS, and responsive UI design, delivering seamless user experiences with expert API integration and state management.

Technical Skills

- **Languages:** JavaScript, Java, dart, C++
- **Technologies & Tools :** ReactJS , Node.js, Express, Docker, Flutter, webRTC, FFmpeg, webSocket.io, MongoDB , Firebase, Canvas , GegoCloud, Data Structure and Algorithms.

Projects

Vibb - Live Video Podcast and Streaming Platform

[github](#)

- **Description:** A MERN-based app designed for *live video calls* and *YouTube streaming*, specifically tailored for podcast hosting.
- **Technologies Used:** *MERN (MongoDB, Express.js, React.js, Node.js), WebRTC, FFmpeg, Canvas , Socket.io, Docker, bcrypt.*
- **Key Features:**
 - Integrated *WebRTC* for seamless, real-time video calls between two users.
 - Used Socket.io for *signaling, facilitating WebRTC offer/answer* exchanges to establish video connections.
 - Deployed *FFmpeg* in a *Docker container to encode Canvas-generated video* into binary format for smooth streaming to YouTube.
 - Implemented *bcrypt* for secure password hashing, protecting user credentials in the database.
- **Achievements:** Created a robust platform that combines live video calls and YouTube live streaming, with secure user authentication and a scalable backend solution.

Task Manager Web Application

[github](#)

- **Description:** A MERN-based task management application providing *secure authentication* and *real-time notifications*.
- **Technologies Used:** *EJS, MongoDB, JWT, Sessions, Nodemailer, Node.js, Express.js.*
- **Key Features:**
 - Integrated *JWT* and sessions for persistent, secure user authentication.
 - Employed *Nodemailer* to handle *email validation* and notifications.
 - Built a dynamic interface using *EJS templating*, enhancing user experience.
- **Achievements:** Developed a user-focused task management solution with real-time notifications and robust security features.

Mini Projects

URL Shortener

[github](#)

- **Description:** A web app for shortening URLs.
- **Technologies:** *EJS, MongoDB, Mongoose, Express.js.*

Real-Time Chat Application (ChitChat)

[github](#)

- **Description:** A chat app enabling room-based real-time communication.
- **Technologies:** *WebSocket, Node.js, Express.js.*

Work Experience

Vqcodes software solutions LLP

Oct 2023 - Jan 2024

(Flutter developer)

- Developed health apps, including Gini, implementing **Vegacloud video calling**.
- Created AI Journal with machine learning features, **using Firebase and API integration**.
- Enhanced app functionality with libraries like **QR Scanner** and collaborated on project delivery.

SAS Web Solutions PVT.LTD

Feb 2024 - Nov 2024

(MERN- Stack developer)

- **Tech Stack:** Built with MongoDB, Express.js, React.js, and Node.js to ensure a robust and scalable architecture.
- **Authentication:** Implemented secure user authentication with JWT for session management and bcrypt for password hashing.
- **Real-Time Collaboration:** Enabled real-time updates and collaboration using WebSockets (**Socket.io**).

Education

Bachelor of Technology (B.Tech)

Aug 2019 – June 2023

University Institute of Technology (UIT), Shimla
CGPI: 8.36

Additional Information

- **Awards/Activities:** Team Leader at Vqcodes company; recognized for contributions to project innovation.