

# Md Arbaaz Hussain

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## SKILLS

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- **Languages:** Java, Python, JavaScript (Browser & Node.js)
- **Frontend:** React, Redux, Next.js, Tailwind CSS, HTML, CSS
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **Tools & Media:** Git, GitHub, AWS, FFMPEG, HLS, WebRTC, Socket.io

## PROJECTS

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### WECONNECT – Real-Time Communication App ([GitHub](#) | [Live](#))

**Tech Stack:** React.js, Node.js, Express.js, Socket.io, WebRTC (Native APIs), MongoDB, JWT

- Built a real-time communication app with support for **text messaging**, **VoIP voice calls**, and **video calls**.
- implemented **WebRTC using native browser APIs**, without third-party libraries, for peer-to-peer media streaming.
- Used **Socket.io** for low-latency, bidirectional real-time messaging.
- Developed **JWT-based authentication and authorization** for secure access control.
- Stored user sessions using **cookies** and **browser session storage**.
- Used **MongoDB** to manage users and chat history.
- Created a simple and responsive frontend using **React.js**.

### MUSIFUN – Music Streaming Web App ([GitHub](#) | [Live](#))

**Tech Stack:** React.js, Node.js, Express.js, MongoDB, FFMPEG, HLS, JWT, Session storage, cookies

- Developed a web-based music streaming platform with features like **track playback**, **playlist creation**, and **streaming queue management**.
- Used **FFMPEG** to transcode audio files into HLS-compatible segments.
- Implemented **HTTP Live Streaming (HLS)** for adaptive audio streaming.
- Built backend services to manage audio delivery and user actions using **Node.js** and **Express.js**.
- Stored user data, playlists, and song metadata in **MongoDB**.
- Created a responsive frontend interface using **React.js**.
- Handled authentication and session management using **JWT**, **cookies**, and **browser session storage**.

## EDUCATION

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**Malla Reddy College Of Engineering and Technology**

June, 2025

Bachelor of Technology, Computer Science and Engineering  
Hyderabad, India

## CERTIFICATES

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- **Introduction to Big Data – University of California San Diego (Coursera)**
- **AWS Fundamentals: Building Serverless Applications – Amazon Web Services (Coursera)**