

# Hritam Brahmachari

Location: Kolkata

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## PROFESSIONAL SUMMARY

IT student with hands-on project experience in **MERN stack (MongoDB, Express.js, React, Node.js)** development. Proficient in **JavaScript, RESTful APIs, Database Handling (SQL / NoSQL) and Git**. Skilled in building scalable web applications and integrating third-party services.

## TECHNICAL SKILLS

<b>Languages</b>	: JavaScript, HTML, CSS, Python
<b>Frameworks</b>	: Tailwind, React.js, Express.js, Node.js
<b>Libraries</b>	: Zustand, SocketIO, React Router, Mongoose, JWT, bcrypt
<b>Databases</b>	: MongoDB, Oracle SQL
<b>Dev Tools</b>	: Visual Studio Code, Git

## PROJECTS

### BrainBuzz - AI-Powered Interactive Quiz Platform

[Link](#)

*React.js, Node.js, MongoDB, Zustand, Tailwind CSS, Mistral API*

- **AI Integration:** Developed a quiz generation system using **Mistral AI API** for dynamic question creation.
- **Community Quizzes:** Built a public repository of all generated quizzes for other users.
- **Custom Quiz Configurations:** Includes user-defined categories, difficulty levels, options-count, and dynamic timers.
- **Interactive UI/UX:** Designed a responsive interface with **Tailwind CSS**, for real-time progress tracking and generating scorecard.

### ChatterBox - Real-Time Chat Application

[Link](#)

*React.js, Zustand, Express, MongoDB, Socket.IO, JWT, Tailwind CSS*

- **Real-Time Messaging:** Implemented bidirectional chat using **Socket.IO** with online user tracking, message notifications with sound alerts, and message delivery status.
- **User Authentication:** Built secure user system using **JWT** tokens with HTTP-only cookies and **bcrypt** password hashing for registration/login.
- **Chat Features:** Designed a user search system, an automated welcome message for new users, and a dynamic sidebar that updates with active conversations.

### MoodMusic - AI-Powered Music Recommendation Platform

[Link](#)

*React.js, Express.js, MongoDB, Mistral API, JWT*

- **AI Integration:** Developed a music recommendation engine using **Mistral AI API** for personalized mood, genre and language based song suggestions.
- **Community Music:** Built a public repository of all generated songs with mood, genre, and language filters.
- **User Management:** Secured authentication with **JWT** and enabled personalized listening history tracking.
- **Media Integration:** Automated YouTube search and integrated **Last.fm API** for dynamic album artwork retrieval.

## EDUCATION

### **Heritage Institute of Technology**

*B-Tech in Information Technology*  
GPA - 8.56

Kolkata

*Oct 2023 – June 2026*

## CERTIFICATIONS

### **Complete PYTHON Programming for Beginners - 2024**

[Udemy](#) 2024

### **Foundations of Web Development: CSS, Bootstrap, JS, React**

[Udemy](#) 2024

### **Build a Backend REST API with Node JS from Scratch**

[Udemy](#) 2025