DHAIRYA RATHORE

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EXPERIENCE SUMMARY

- Strong experience in building RESTful and real-time APIs using Node.js and Express.js, following **MVC architecture** and clean backend design principles.
- Designed and optimized **high-concurrency systems** capable of handling **1 lakh+ parallel requests**, using **Redis for in-memory caching and distributed locking** to ensure data consistency.
- Hands-on experience with **real-time communication systems** using **WebSockets / Socket.IO** for private and group messaging.
- Skilled in working with MongoDB (NoSQL) using Mongoose and PostgreSQL (Relational**)** with joins**,** sub**-**queries**,** indexing**,** and query optimization.
- Implemented **secure authentication systems** including OTP-based mobile login, JWT authentication, and **role-based access control (user/admin)**.
- Experience designing and integrating **media-driven features** such as **stories**, chat media, and profile uploads using Multer and Cloudinary.
- Hands-on experience in **payment integration and authorization** using **Stripe/Razorpay**, including **webhook-based payment confirmation flows**.
- Built **admin dashboards** to manage users, content, bookings, and generate business and revenue insights.
- Experience with **real-time voice and video calling systems** using **WebRTC**, including signaling flow design .
- Hands-on experience deploying production-ready full-stack applications on Vercel,Docker, using environment-based configuration management.
- Strong understanding of backend security best practices, including bcrypt password hashing, CORS, HTTP-only cookies, JWT lifecycle management, and protected routes.

TECHNICAL SKILLS

Languages : JavaScript,Node.js,C++,React,MYSQL , HTML , CSS,Machine Learning **.**
Technologies : Nodejs , Cors , JWT Token , MongoDB , Axios , React , REST API , Github , Postgresql
Concepts : Website Development ,Database Handling ,Websocket,WebRTC
CodeChef (3★, 1716): codechef.com/users/rdhairya_21
Codeforces (1160): codeforces.com/profile/Dhairya_04

PROJECTS

1. YooChat – Real-Time Social Media Chat Application   *OCT 2025*

- Built a **real-time chat application** supporting **private chats, group chats, and story sharing**.
- Implemented OTP-based authentication with mobile number login, enabling secure, passwordless user access.
- Designed **real-time messaging architecture** using **WebSockets / Socket.IO** for instant message delivery.
- Developed **group creation & management features** with efficient user-conversation mapping.
- Currently implementing **real-time voice and video calling** using **WebRTC**.

2. YooStay -Hotel Booking Web App
JULY 2025

- YooStay is a hotel booking web app where users can search hotels, view rooms, check availability, and make secure online bookings.
- Designed a highly concurrent hotel booking system ensuring **atomic reservations** and **zero double-booking** under 1lakh+ parallel user requests.
- **Payment Integration**: Secure online payments with **Stripe**/Razorpay, webhook verification, and booking confirmation.

Software Tool

Visual Studio Code, Jupyter notebook, MySQL , Github , Postman ,PgAdmin ,Docker

EDUCATION

Bachelor of Technology (B.Tech) in Electronics and Communication Engineering
Indian Institute of Information Technology, Nagpur (IIIT Nagpur) — Pursuing, expected graduation: [2027]

Relevant Coursework :-
C language , Application Programming(html,css,javascript,python) , DSA , Machine Learning (Coursera)

Communication Skills

English & Hindi