Raj Singh

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EDUCATION

Thakur College of Engineering and Technology   Mumbai
Bachelor of Engineering in Computer Engineering   *2022 – Present*
- CGPA: 9.0

PROJECTS

TalkBridge – Chat Web Application
- A modern, full-stack chat application meticulously designed for seamless real-time communication.
- Implemented robust and secure authentication mechanisms and protected routes by leveraging **JWT**.
- Built real-time chat functionalities using **Socket.IO** for fast and interactive conversations between users.
- Integrated **Cloudinary**, a powerful cloud-based media management service, for efficient and image uploads directly within chat conversations.
- **Tech Stack:** React.js, TailwindCSS, Node.js, MongoDB, Socket.IO, Cloudinary.

URL Trimmer – URL Shortener & Link Management Web Application
- Developed a scalable URL shortener that enables users to generate short, memorable links.
- Implemented secure **Google OAuth 2.0 authentication** for seamless and reliable user login.
- Implemented **Analytics & Tracking** to monitor click counts, performance, and usage insights.
- Added **User Management features** allowing organization of links with tags, descriptions, and custom titles.
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Google OAuth, Axios, Framer Motion.

AI SaaS Application – Subscriptions & Billing
- Developed a fully functional AI SaaS application with subscription billings using the **PERN stack** (PostgreSQL, Express, React, Node.js).
- Implemented secure user authentication and profile management using **Clerk**.
- Integrated subscription billing system to manage premium AI feature access.
- Leveraged serverless **PostgreSQL (Neon)** for scalable database management.

TECHNICAL SKILLS

Languages: C++, HTML, CSS, JavaScript, SQL
Frameworks: React.js, Express.js, Tailwind CSS
Developer Tools: VS Code, Git & GitHub, MySQL Workbench, MongoDB Atlas
Technologies: OOPS, DBMS, Data structures & algorithms(DSA), Node.js, MySql

EXTRA CURRICULAR & CERTIFICATIONS

Certifications
- **SQL (Basic) Skill Certification – HackerRank:** Validated foundational SQL proficiency.
- **Become a Full-Stack Web Developer – Udemy:** Completed comprehensive full-stack web development course.
- **Backend Development Course Program – Physics Wallah:** Acquired foundational knowledge in backend development, including server-side and API design.

Programming Achievements
- Achieved a **5-star gold badge in C++**, **4-star badge in C**, and **5-star badge in SQL** on **HackerRank**, demonstrating strong proficiency in problem-solving and backend development skills.
- Solved over **300+ problems** on various competitive programming platforms such as **GeeksforGeeks**, **HackerRank**, **CodeChef** and **LeetCode**.
- Achieved **1st rank** in the Skillful Saturdays coding competition conducted by the Department of Computer Engineering, TCET (University of Mumbai).

HOBBIES

- Strategic gaming focused on Problem-Solving and Real Time Strategy.
- Active Trading and analysis of Financial Markets and Stocks.