GOPAL KUMAR

Nawada, Bihar

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PROFESSIONAL SUMMARY

Full-Stack Developer with hands-on experience in the MERN Stack (MongoDB, Express.js, React.js, Node.js), Next.js, PostgreSQL, and WebSocket. Skilled in building scalable, real-time applications with a strong focus on performance, user experience, and RESTful API integration. Proficient across Frontend Development, Backend Development, Databases and Version Control. Actively deepening expertise in DevOps practices and CI/CD pipelines using tools like Docker, Kubernetes, and more. Driven by curiosity and a collaborative mindset to create impactful, real-world solutions.

TECHNICAL SKILLS

Coursework: Web Development (MERN Stack), Data Structures and Algorithms(DSA)
Programming Languages: C++, HTML5, CSS, JavaScript, TypeScript, SQL,
Technologies/Frameworks: React.js, Next.js, Node Js, Express.js
Developer Tools: Github, VS Code, Postman
Design and UI Tools: Figma, Tailwind CSS
ORM and Database: Mongoose, Prisma, MongoDB, PostgreSQL
DevOps: Docker, Nginx, CI/CD, AWS, Kubernetes, Prometheus

PROJECTS

CollabBoard - A shared space for limitless creativity ⧉ Live </> Code | Next.js, Typescript [**Working**]

- Developed a **multi-user** live drawing platform using **WebSockets** (100ms latency).
- Utilized **TurboRepo** for **monorepo** management, cutting **build** times by 40-60%.
- Integrated **Prisma** ORM with **PostgreSQL**, enhancing schema **consistency** and reducing errors by 70%.
- Accelerated API performance using **Express server** for user management, reducing **response** time by 30%.

HypeQueue – Crowd-Powered Music Queue ⧉ Live </> Code | Next.js, Typescript [**Working**]

- Built a real-time **music queue** where users can add, vote, and control songs, increasing engagement by 60%.
- Linked **YouTube** and **Spotify** APIs, accelerating song search/playback by 90%.
- **Optimized** UI with **Next.js**, **TypeScript**, **TailwindCSS**, reducing load time by 40%.
- Launched a **WebSocket**-based **collaborative** room that drove an **80%** uptick in user engagement.

NexMeet – The Next-Gen Meeting Room ⧉/ Live </> Code | Next.js, TypeScript, Clerk, Stream Video

- Designed a **high-performance video conferencing** platform using **Stream** with less than 200ms latency.
- Customized secure **authentication**, **role-based** access control using **Clerk**, improving **security** by 40%.
- Integrated **Stream Video** API to enable real-time **video calls**, and **call recording**, enhancing communication efficiency.
- Improved user engagement with **public/private** rooms, **scheduling**, and **screen sharing**, by 50%.

TaLkTiMe - Real-Time Chat App ⧉/ Live </> Code | React.js, Redux, Node.js,MongoDB, Socket.io

- Developed a real-time chat app with **1-on-1/group** messaging using **socket.io**.
- Implemented 4+ core **functionalities** like User **Authentication**, Request/Accept friends, Send and receive messages, **group chat**, handle **online/offline** statuses.
- Added Typing Indicators, **Read Receipts**, **Notifications**, and **Media Sharing** (images, videos, files).
- Optimized database interactions and integrated modules for seamless real-time messaging.

EDUCATION

Chandigarh University	**2020 – 2024**
*B.Tech - Computer Science and Engineering - **CGPA** - 7.02*	*Mohali, Punjab*
Modern English School	**2018 – 2019**
*Intermediate - CBSE - **Percentage** - 69.6%*	*Nawada, Bihar*
Modern English School	**2016 – 2017**
*Matriculation - CBSE - **Percentage** - 83.6%*	*Nawada, Bihar*