Kushagra Tiwari

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EDUCATION

National Institute of Technology Karnataka, Surathkal   Aug 2023 – Present
*B.Tech in **Electrical and Electronics Engineering***   *CGPA: **7.1/10***

EXPERIENCE

Qlue (Remote)   May 2025 – Jul 2025
React Native Developer

- Engineered **cross-platform mobile apps** using **React Native** with modular architecture.
- Implemented **real-time chat** with **Socket.io** & **Firebase Firestore**, achieving **99% delivery rate**.
- Integrated **FCM push notifications** to boost user engagement.

Advista (Remote)   Jan 2025 – Feb 2025
Frontend Developer

- Built modular, **responsive UI** with **React.js** & **Tailwind CSS**.
- Optimized performance using **code splitting**, **lazy loading**, and refined **routing**.
- Transformed **Figma designs** into interactive interfaces with efficient **state management**.

PROJECTS

StreamSync |Node.js, WebRTC, Socket.io   Mar 2025 – Jul 2025

- Created a **real-time video streaming** platform supporting multiple concurrent streams with minimal latency.
- Introduced **live chat**, superchat donations, and subscription management.
- Enabled **screen sharing** and seamless session joining for collaboration.
- Enhanced scalability by refining **WebRTC** signaling for low-latency peer connections.

Get Social | React Native, MongoDB, Express.js   Jan 2025 – Feb 2025

- Designed a **social media app** featuring **real-time** messaging, friend requests, and profile management.
- Applied secure **authentication** with **JWT**, role-based access, and encrypted storage.
- Improved **MongoDB** for scalability and faster queries.
- Implemented globally unique identifiers with **UUID** for distributed system consistency.

FileForge | React.js, Tailwind CSS, FastAPI   May 2025 – Jul 2025

- Constructed frontend for a **cloud file-sharing platform** with dashboards, previews, and file management.
- Linked secure file upload, preview, and sharing APIs with **FastAPI**backend.
- Optimized **PostgreSQL** and **MinIO** queries, reducing response time by **50%**.
- Introduced dual view modes **Grid** and **List** for better user experience.

Study AI | FastAPI, Express.js, Generative AI   Jun 2025 – Jul 2025

- Built **Chrome extension** with contextual **AI chatbot** on YouTube for interactive learning.
- Integrated **Gemini API** for accurate AI-generated summaries.
- Engineered backend with **FastAPI** and **Express.js**, handling API requests efficiently.
- Added persistent **chatbot button** with lightweight UI for seamless access across YouTube.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, C++
- **Web & App Development:** React.js, Next.js, Tailwind CSS, React Native
- **Backend & APIs:** Node.js, Express.js, REST APIs, Socket.io, Firebase, FastAPI
- **Databases:** MongoDB, PostgreSQL
- **Other:** WebRTC, FCM, DSA, Generative AI, Responsive UI

LANGUAGES

- **English (Fluent)**, **Hindi (Native)**