

Kushagra Tiwari

+91 8318661731 | kushagratiwari.231ee128@nitk.edu.in | linkedin.com/in/kushagra-tiwari-aa2354283 | github.com/Kushagra1122 | portfolio.kushagratiwari.xyz

EDUCATION

National Institute of Technology Karnataka (NITK), Surathkal

*Bachelor of Technology in **Electrical and Electronics Engineering***

Aug 2023 – Present

CGPA: 7.1/10

EXPERIENCE

Qlue (Remote)

React Native Developer

May 2025 – Jul 2025

- Developed **cross-platform mobile apps** using **React Native**, improving code reusability by **40%**.
- Executed **real-time chat system** with **Socket.io** & **Firestore**, achieving a **99% message delivery rate**.
- Integrated **push notifications (FCM)** to increase user engagement by **20%**.

Advista (Remote)

Frontend Developer

Jan 2025 – Feb 2025

- Delivered responsive, **pixel-perfect UIs** using **React.js** & **Tailwind CSS**, enhancing load performance by **30%**.
- Applied **code splitting**, **lazy loading**, and route optimization to reduce bundle size by **25%**.
- Transformed complex **Figma designs** into dynamic components with **99% design fidelity**.

PROJECTS

Approval Orchestrator | Node.js, SQLite, React, Cron Jobs, Webhooks

Sep 2025 – Oct 2025

- Architected an intelligent **approval workflow system** automating manual approvals with complete audit trails.
- Deployed **multi-channel notifications** (Slack, Email, Web) for real-time process updates.
- Designed analytics dashboards using **Recharts** for visualizing approval timelines and metrics.
- Implemented rollback logic, smart routing, and background **cron jobs** for seamless automation.

StreamSync | Node.js, React.js, Express.js, MongoDB, WebRTC, Socket.io

Mar 2025 – Jul 2025

- Developed a **real-time video streaming platform** supporting multiple concurrent sessions with minimal latency.
- Introduced **live chat**, superchat donations, and subscription management modules.
- Enabled **screen sharing** and collaborative session joining for interactive streaming.
- Optimized **WebRTC signaling** for scalable, low-latency peer connections.

Get Social | React Native, Node.js, MongoDB, Express.js, Socket.io

Jan 2025 – Feb 2025

- Designed a full-featured **social media app** with **real-time messaging**, friend requests, and profile management.
- Applied secure **JWT authentication**, role-based access, and encrypted storage for user privacy.
- Enhanced MongoDB query performance and scalability through optimized indexing.
- Established distributed consistency using globally unique **UUID** identifiers.

Study AI | FastAPI, Express.js, Gemini API, Chrome Extension

Jun 2025 – Jul 2025

- Engineered a contextual **AI chatbot** for YouTube videos, enabling topic-specific learning and exploration.
- Integrated the **Gemini API** for transcript summarization and automated Q&A generation.
- Orchestrated **FastAPI** and **Express.js** microservices for asynchronous, low-latency processing.
- Packaged a Chrome extension with a persistent floating UI for seamless in-page access.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Python, C++, SQL
- **Frontend:** React.js, Next.js, React Native, Tailwind CSS
- **Backend:** Node.js, Express.js, FastAPI, REST APIs, Socket.io, WebRTC, Webhooks, Cron Jobs
- **Databases & Storage:** MongoDB, PostgreSQL, SQLite
- **Other:** Responsive UI/UX, Generative AI, Git

LANGUAGES

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