

# Kushagra Tiwari

+91 8318661731 | [kushagratiwari.231ee128@nitk.edu.in](mailto:kushagratiwari.231ee128@nitk.edu.in) | [linkedin.com/in/kushagra-tiwari-aa2354283](https://linkedin.com/in/kushagra-tiwari-aa2354283) | [github.com/Kushagra1122](https://github.com/Kushagra1122) | [portfolio.kushagratiwari.xyz/](https://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)**

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

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

Sep 2025 – Oct 2025

- Built a modern, intelligent **approval workflow system** transforming manual approvals into automated, auditable workflows.
- Implemented **multi-channel notifications** (Slack, Email, Web) for real-time status updates.
- Developed analytics dashboards powered by **Recharts** with process and timeline visualization.
- Enabled **rollback system**, smart routing, timeout handling, and background **cron jobs** for clean process automation.

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

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.

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

Jun 2025 – Jul 2025

- Developed a **contextual AI chatbot** for YouTube videos enabling interactive, topic-specific learning.
- Connected **Gemini API** for automatic transcript summarization and question-answer generation.
- Used **FastAPI** and **Express.js** microservices to process requests asynchronously with low latency.
- Packaged extension for Chrome Web Store with persistent in-page floating UI button for seamless access.

## TECHNICAL SKILLS

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

## LANGUAGES

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