

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)** May 2025 – Jul 2025
React Native Developer
- Developed cross-platform mobile apps using React Native, improving code reusability by 40%.
 - Executed real-time chat system with Socket.io & Firebase Firestore, achieving a 99% message delivery rate.
 - Integrated push notifications (FCM) to increase user engagement by 20%.
- Advista (Remote)** Jan 2025 – Feb 2025
Frontend Developer
- 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)