RAJAT MISHRA

Software Developer

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SUMMARY

Software Developer with 2 years at TCS CTO Accessibility (R&I), B.Tech in Electronics & Communication Engineering from IET Lucknow (2023). Proficient in modern web & mobile frameworks, with a strong command of data structures & algorithms.

SKILLS

Languages: C, C++, Java, JavaScript, Typescript, SQL.

Tech Stack: React.js, Redux, React Native, Next.js, Node.js, Express.js, MongoDB, Mongoose.

Utilities: Git, GitHub, Firebase, Tailwind CSS, Azure

EXPERIENCE

12/2023 – Present — **Software Developer** — **TCS CTO Accessibiliy Team (R&I)**

React, Context API, Tailwind CSS, Spring Boot, SQL

• **Engineered an Automated Training Schedule Generator deployed across 5 TCS units, reducing manual scheduling effort by 80% (from 4 hrs to 30 mins per run).**
• Crafted a responsive React.js/Material UI frontend with Context API for real-time schedule visualization, boosting planner efficiency by 60%.
• Defined and optimized database schemas reducing redundancy by 30%—and shaped the high-level system architecture.

React Native, Redux, TypeScript, Azure AI

• **Co-developed UI with CTO Accessibility team using React Native, Redux & TypeScript, integrating camera, microphone, TTS, gyroscope & accelerometer to achieve WCAG AA compliance.**
• Engineered Azure AI Vision OCR pipeline with batching & hashing, slashing processing time from 60 s to 7 s (88% faster) for 10-image batches.
• Designed hands-free voice-command & TTS feedback system with 95% recognition accuracy, cutting navigation errors by 30%.
• Implemented AppState-driven mic session management, reducing background listening by 70% and battery usage by 25%.

PROJECTS

React, Typescript, Firebase, Drag Web API

Form Builder: [Live] — github.com link

Architected a JSON-schema–driven form builder, empowering users to design, preview, and deploy custom forms with real-time validation and one-click Firebase persistence.

React Native, Expo, Gradle

Document Reader: [APK] [Demo] — github.com link

Developed a React Native Android app for offline document reading with customizable text-to-speech and background functionality.

OPEN SOURCE CONTRIBUTION

4/2025 — **npm: react-native-tts-reader** — **TypeScript, Expo-Speech**

• Published a fully tested, MIT-licensed tts reader library with multiple **downloads**.

EDUCATION

8/2019 - 7/2023 — **Bachelor of Technology - Electronics and Communication** — **CGPA - 8.48/10**
Institute of Engineering and Technology, Lucknow

ACCOMPLISHMENTS

Indian Air Force — **Selection for Pilot**
Got recommended for Indian Air Force (Pilot) in Air Force Selection Board. Later, declared medically unfit .

Placement Cell IET Lucknow — **Head Placement Co-ordinator**
Led a team of 21 campus ambassadors to organize on-campus drives for 30+ recruiting companies, achieving a 95% overall placement rate.

ACHIEVEMENTS

• Secured Global Rank 56 in Codechef Algomanic-Code for Future 2021 out of 8000+ participants. (Top 0.7%)
• Secured Global Rank 115 in Codechef Snackdown Round-1B 2021 out of 7000+ participants. (Top 1.6%)
• Secured Global Rank 1990 in Google KickStart H 2021 out of 18000+ Participants. (Top 11%)
• Advanced to the Round 2 Facebook Hackercup 2021 with Global Rank 2826 out of 15000+ participants. (Top 18.4%)
• Advanced to the Round A Google Codejam 2022 with Global Rank 7115 out of 32000+ participants. (Top 22.2%)