


RAJAT MISHRA

Software Developer

 [Portfolio](#)

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 [Github Profile](#)

 Lucknow, India

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SUMMARY

Software Developer with 2 years at TCS CTO Team (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 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

- **Developed UI with CTO 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](#)

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: [Demo], [APK]

[github](#)

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%)