

Rishav Jha

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Summary

Cross-platform app developer with 4 years of experience shipping **React Native**, **Flutter** and **Tauri** apps for **iOS**, **Android** and desktop, from 50+ screen consumer apps to App Store releases, OTA updates and published npm packages.

Education

National Institute of Technology Durgapur, B.Tech. in Mechanical Engineering

Dec 2020 – May 2024

Experience

Tessell, Member of Technical Staff 2 (Software Engineer) – Bengaluru, IN

Aug 2025 – Present

- Core engineer on **Escher**, Tessell's AI-native cloud-operations **desktop app** built with **Tauri**, **React**, **TypeScript** and **Rust**
- Authored **v2-app-storage**, a **Rust Tauri plugin** that moved chats, user metadata and preferences from ChromaDB (5 to 8 second reads) to **SQLite** with a typed per-table query layer, eliminating data persistence failures
- Engineered a **two-lane concurrent execution engine in Rust** for chat and background AI workloads with bounded concurrency, **MPMC** channel dispatch and hardware-aware parallelism, plus **SQLite**-persisted execution state with automatic crash recovery of orphaned jobs
- Replaced image-capture PDF export, which cropped charts and data, with native PDF generation using **React PDF**, and fixed CSP, WASM and font failures that only appeared in packaged production builds
- Implemented end-to-end **observability** with request-ID correlation across **TypeScript** and **Rust** into **AWS CloudWatch**, and hardened the **Tauri** security surface with compile-time **IPC** gating and capability restrictions

Cuemath, Software Engineer (Intern to Full-Time) – Bengaluru, IN

Oct 2023 – Aug 2025

- Maintained the **React Native** Circle and Cuemath apps on **iOS** and **Android**: fixed background audio leaks and stuck notification-tray controls via **AppState** lifecycle handling, and built frame-based **Lottie** segment controllers to work around a legacy React Native version
- Ran mobile release engineering: **OTA updates** through **CodePush** and production submissions to **Google Play** and the **Apple App Store**
- Shipped multi-persona onboarding for Students and Parents across **Leap (React)** and the **React Native** apps, with conditional step-routing state machines
- Migrated the sunset Circle app's games and streaks into the **Leap** web platform and built a real-time teacher-student demo matching flow for sales trials
- Built the **Journey** coachmark and guided-onboarding system with Principal Architects: 8-directional collision detection, absolute and scrollable positioning, gesture-nudge and card formats, and full **Storybook** edge-case coverage, adopted across Circle and Leap
- Implemented player reconnection and AFK handling on **Colyseus** rooms: a 30-second reconnection window, round-level AFK forfeiture and automatic room teardown for bot matches, reducing mid-game drops and orphaned rooms

Capricon Technology, React Native and Flutter Developer

Jun 2022 – May 2024

- Built **Treklers**, a **React Native** and **TypeScript** taxi booking app with **50+ screens**: real-time driver tracking, scheduled rides, emergency calling and cash, wallet and card payments; separating UI from business logic let four full redesigns ship without regressions
- Stabilized the **Treklers Driver** app by eliminating fatal **iOS** crashes and native bridge instabilities, and fixing safe-area and screen-cropping defects across Apple device sizes in **Xcode**
- Built **Humanist Earth** (formerly Illuminate Investing) screens (live on the App Store and Google Play): dashboard, portfolio allocation, risk questionnaire and shareholder voting; built **Training Tracker**, a workout logger with **React Native Skia** charts
- Built **Would You**, a **Flutter** dating app where on-device smile detection with **Firestore ML** drives swipes, including auth, profile and camera flows

Google Summer of Code (GSoc), Contributor and Mentor – gsoc.rishavjha.com

May 2023 – 2025

- Redesigned the Talawa Admin UI for the Palisadoes Foundation in **React** and **TypeScript** from a new Figma design as a responsive, modular interface, deployed incrementally screen by screen as reusable, documented components
- Refactored the Talawa website codebase and added **test coverage**, resolving **cross-browser compatibility** issues and improving long-term maintainability
- Returned as a **GSoC mentor** for the Palisadoes Foundation in the **2024 and 2025** cohorts, guiding contributors

Projects

Vajra UI and Vajra UI Core

[npm](#)

- Published a token-driven **React Native** component library with runtime theming and typed tokens, built on **Vajra UI Core**: 12 zero-dependency headless layout primitives in about 9 kB
- **Tools**: React Native, TypeScript, npm

RN Storage Kit and RN Font Packages

[GitHub](#)

- Published one async API over **MMKV**, **Keychain**-encrypted secrets and a production-safe logger that masks credentials, plus typed cross-platform font packages generated from a single publishing template
- **Tools**: React Native, TypeScript, MMKV, Keychain, npm

UV Downloader

React Native

- Built a video and audio downloader for YouTube, Instagram, Facebook and Reddit with a built-in browser and file manager, evolving it over three versions from Context API to Redux to **Redux Toolkit**, with **FFmpeg** merging audio and video tracks
- **Tools**: React Native, TypeScript, Redux Toolkit, Flask, FFmpeg

Buzzpost

[Live Site](#)

- Built a blogging platform with a social feel in **Django**: rich-text posts, likes, comments and replies, search and a trending page, plus a **React Native** companion app
- **Tools**: Django, Python, JavaScript, React Native, TinyMCE

Skills

Languages: TypeScript, JavaScript, Dart, Rust, HTML5, CSS3

Mobile: React Native, Flutter, Redux, Redux Toolkit, Zustand, React Native Skia, Lottie, MMKV, Keychain, Firebase ML, FFmpeg, CodePush, iOS, Android, Xcode

Desktop & Web: Tauri, Electron, React, Next.js, Chrome Extension APIs, SQLite, Flask, Django

Release & Tooling: App Store Connect, Google Play Console, OTA Updates, GitHub Actions, CI/CD, Jest, Storybook, npm Publishing, Git

Concepts: Cross-Platform Mobile Development, Native Bridge Debugging, Real-Time Location Tracking, Multiplayer (Colyseus), App Performance, Offline Storage, Design Systems