

# SUDHANSHU RANJAN

Senior Software Engineer | Frontend Architecture & Technical Leadership

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## PROFESSIONAL SUMMARY

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Senior software engineer with 7+ years developing JavaScript/TypeScript web applications across insurance, education, and enterprise software. Combines hands-on implementation with architecture, cross-team delivery, and developer enablement. Independently builds and maintains Android apps.

## TECHNICAL SKILLS

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**Core:** JavaScript, TypeScript, React, Next.js, HTML, CSS

**UI & Platforms:** React Native, Expo, XState, JSONata, REST API integration

**Quality:** Vitest, Jest, React Testing Library, Playwright, property-based testing, MSW, Storybook

**Delivery:** GitHub Actions, Docker, AWS S3/CloudFront, pnpm, Git

## PROFESSIONAL EXPERIENCE

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### Fletch

Jan 2023 – Present

#### Senior Software Engineer

- Own frontend architecture and technical direction within a five-engineer frontend team for an embedded-insurance platform serving **15+ partners and approximately 90k monthly visitors**. Remain over 90% hands-on while guiding planning, hiring, and engineering reviews.
- Built the no-code UI proof of concept and led architecture of its Next.js runtime, replacing partner-specific code branches with Studio-authored layouts, validation, and flow rules. Enabled supported partner launches and UI changes **without frontend deployments**.
- Migrated quote and payment journeys from client-side rendering to Next.js SSR to address initial-load bottlenecks in partner embeds. Implemented Stripe Elements checkout, supporting approximately **\$50k in monthly Stripe payments** across SSR and no-code experiences.
- Designed a shared JSONata transformation layer to map API responses into subsequent requests, allowing partner-specific data transformations to be configured without custom application code.
- Built configurable conditional and repeated submit operations for multi-pet purchases, with per-item tokenization, bounded execution, and explicit handling of partial or uncertain outcomes.
- Replaced hardcoded partner tracking with an event-routing framework and adapters for GTM, Rakuten, Adobe Analytics, and webhooks. Enabled service configuration and payload mapping through Studio rather than application code changes.
- Built an independent Model Context Protocol (MCP) UI runtime and shipped chat-to-form prefill across a Python server and TypeScript client. Derived tool schemas from partner configuration and skipped eligible prefilled screens while preserving user edits and required interactions.
- Automated PR checks and deployments, eliminating recurring wrong-environment release errors. Led framework upgrades and pnpm adoption with three-day dependency release-age gates, restricted install scripts, and exact versions to improve maintenance and dependency security.
- Established unit/property-based and UI test coverage, performed accessibility audits against WCAG 2.1, and mentored an engineer into ownership of no-code UI changes.

## PROFESSIONAL EXPERIENCE (CONTINUED)

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### Interview Kickstart

Nov 2021 – Nov 2022

#### Software Engineer

- Built the shared react-i18next foundation supporting the India launch, generating type-safe translation keys and coordinating adoption across frontend teams.
- Migrated course and program pages from Django to Next.js with a three-person Growth frontend team. Integrated Razorpay browser checkout into the Django-based enrollment experience.
- Built a shared GA4 analytics layer with custom-event dispatch and centralized adapters. Standardized event definitions and parameters so teams could instrument their own product areas.
- Introduced MSW API-contract mocks so UI development could proceed alongside backend work, with an environment switch to live APIs. Set up cross-team Storybook documentation and helped establish internal UI-package build/release tooling.

### Paytm

Aug 2021 – Nov 2021

#### Software Engineer, Frontend

- Contributed fixes to the AngularJS seller panel and React-based PaytmMall web application.

### Aptus Data Labs

Jan 2019 – Aug 2021

#### Software Developer / Frontend Lead

Intern Jan–Jun 2019. Full-time from Jul 2019, progressing from Junior Data Analyst to Frontend Lead.

- Built a React supply-chain planning UI from scratch with one other frontend engineer, including Chart.js KPI dashboards and role-based screen/action access. Led UI development in collaboration with backend engineers and the project owner.
- Initiated and led the full JavaScript-to-TypeScript migration, improving editor autocomplete and consistency of API response types and component props.
- Introduced Jest/Testing Library coverage for critical UI flows and GitHub Actions/Docker deployments. Reviewed code and mentored developers and interns.

## PROJECTS

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### Expense Buddy

Android | Public release

[github.com/sudokoi/expense-buddy](https://github.com/sudokoi/expense-buddy) | Google Play

- Independently built and maintain a local-first React Native/Expo expense tracker with **20+ monthly active users**, MMKV persistence, and multi-currency reporting.
- Implemented a native Kotlin SMS pipeline with on-device parsing, LiteRT category suggestions, and a Room-backed review queue. Raw messages stay on-device and users approve imports.
- Built optional GitHub sync with incremental transfers and conflict handling. Covered storage, parsing, and sync behavior with JavaScript and native tests, including property-based tests.

### Ritulaya

Android | Public release

[github.com/sudokoi/ritulaya](https://github.com/sudokoi/ritulaya) | Google Play

- Built a local-first period tracker with React Native/Expo and native Kotlin modules. Encrypted Room/SQLCipher storage uses an Android Keystore-wrapped database key.
- Implemented optional GitHub background sync with revision-based three-way merging, conflict resolution, and atomic publication through a native WorkManager-backed pipeline.

## EDUCATION

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### Silicon Institute of Technology

2015 – 2019

B.Tech in Computer Science | GPA: 8.85 / 10