

Satjeet Singh

Full-Stack Software Engineer · TypeScript · React/Next.js · Ruby on Rails · React Native/Expo
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SUMMARY

Full-stack engineer with 8+ months of freelance contract experience in React/Next.js, React Native, TypeScript, and Ruby on Rails. Published an npm package and contributed to Cypress and Markuplint. B.Tech CSE (June 2027), seeking full-stack software engineering roles.

EXPERIENCE

Freelance Full-Stack Software Engineer (Contract)

November 2025 – July 2026

Independent Contractor · US-based real-estate technology startup (client) · Remote, India

Transaction Management Platform — Web + Mobile

November 2025 – April 2026

- Built the Rollout integration for a real-estate transaction platform supporting Dotloop, Dotloop Legacy, and SkySlope, adding HMAC-SHA256 webhook verification and idempotent Rails jobs to prevent duplicate or invalid webhook processing.
- Designed an OpenAI-assisted task dependency workflow with human confirmation and server-side graph validation, rejecting self-references, reverse edges, and longer cycles before invalid relationships reached persistent state.
- Extended transaction workflows across Next.js and React Native/Expo with Google and Apple Calendar APIs and ActionCable/WebSocket synchronization, adding stale-event protection to keep Web and Mobile state consistent.
- Added Sentry error capture (client, server, edge) and OpenTelemetry tracing to the Next.js app, then instrumented calendar and task data flows at the render boundary to trace a 33-event discrepancy to 7 Google events, 18 transaction milestones, and 8 backend task events and resolve a Google Tasks loading race.
- Migrated API contracts from OpenAPI/RSwag to generated TypeScript clients, replacing hand-written API types and validating with 44 RSpec examples, 25 Vitest tests, and a clean typecheck.
- Coordinated task ownership with the project lead and other engineers, aligning frontend changes with backend fixes to avoid conflicting implementations.

AI Document Processing & Voice Workflows

May 2026 – July 2026

- Hardened document processing across Web/Mobile uploads, Rails/Sidekiq jobs, caching, retries, and AI extraction, tightening validation so degraded extraction results were not treated as successful processing.
 - Resolved React Native voice-state issues involving speech timeouts, incremental transcription, microphone state, and manual-input conflicts, restoring consistent behavior between voice and text interaction paths.
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OPEN SOURCE & DEVELOPER IMPACT

- **safe-money-ui (npm):** Published a React/TypeScript library for currency-safe amount handling, locale-aware parsing, validated API boundaries, and failure-tolerant submission workflows.
 - **Cypress #35053:** Fixed case-insensitive duplicate-header validation in `cy.intercept`, preventing invalid route matcher headers from bypassing validation; added regression coverage and verified relevant E2E, unit, type-check, and lint suites.
 - **Markuplint #4254:** Addressed false-positive HTML content diagnostics when `pretenders.auto` encounters unresolved JSX components, adding regression coverage for component references such as `Tabs.Root` and `motion.div`.
 - **Markuplint #4245:** Proposed retry-safe initialization after failed imports and propagation of fatal parser errors while preserving non-fatal fallbacks; added regression tests for retries, concurrent initialization, and error handling.
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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Ruby, SQL, C++

Frontend & Mobile: React, Next.js, React Native/Expo, Tailwind CSS

Backend & Engineering: Ruby on Rails, Node.js, NestJS, PostgreSQL, REST APIs, OpenAPI/RSwag, Sidekiq, WebSockets, OAuth, OpenAI/Gemini APIs, RSpec, Vitest, Sentry, OpenTelemetry, Git/GitHub

EDUCATION

Guru Nanak Dev Engineering College, Ludhiana

July 2023 – June 2027

Affiliated to I.K. Gujral Punjab Technical University

B.Tech. in Computer Science & Engineering · CGPA: 8.83/10