

Shailesh Singh

Frontend Developer (React.js, Next.js & Angular)

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Frontend Developer with 4-5 years of experience shipping production features across React.js, Next.js, Angular, and React Native. Recent work centers on real-time collaborative whiteboarding (Tencent TCIC SDK), exam-integrity/proctoring flows, payment integrations (Chargebee, Stripe), SSO/social auth, and cross-application iframe embedding across three interconnected codebases on the Turito EdTech platform. Also independently built a full React Native/Expo mobile & web application for a UN pension-fund (UNJSPF) client covering retirement eligibility, benefit calculation, and planning tools for retired UN staff. Comfortable owning a feature end-to-end — API integration, state management, and production debugging.

WORK EXPERIENCE

Software Engineer | YuppTV (Yupp Video Services), Hyderabad

Aug 12, 2024 – Present

Frontend development across the Turito EdTech platform (three codebases: Student Portal, Turito-Connect, Turito Marketplace)

Real-time collaborative whiteboard (TCIC SDK)

- Built multi-layer whiteboard tabs/layers backed by dedicated APIs, and unified the notes layer across flows in a major cross-cutting update, on both the Angular teacher console and the Next.js student portal.
- Fixed cross-teacher session joining, teacher-rejoin failures, and student-side layer-disappearance issues in live sessions.
- Shipped iframe-embedded solution/test-review screens with postMessage-based APIs for quiz and test communication, and resolved SDK CSS-override conflicts inside the iframe.
- Added a floating layer switcher and fixed npm/build and CORS-related script-loading issues for the TCIC Electron desktop app.

Exam proctoring (Safe Exam Browser)

- Implemented the end-to-end SEB proctoring flow, including submit/write-up handling, face verification, and screen-share detection.
- Built a counsellor-facing proctoring logs dashboard and fixed student-ID mapping, OTP-expiry, and post-install/domain configuration issues.

Cross-application integration & iframes

- Designed the sidebar/header iframe pattern used across all three Turito codebases — dynamic origin resolution, redirect handling, loading states, and logout synchronization.
- Restructured tutoring routes and dynamic redirection for AI tutor session notes and view-results pages.

Payments & authentication

- Implemented and hardened Chargebee and Stripe payment flows end-to-end, including a dedicated mobile-app success page and billing-details redirection for marketplace orders.
- Integrated Google and Apple social login, Clever SSO, and merged guest + social login into a single unified flow across environments.

Product & platform

- Managed development of the student-facing EdTech website, collaborating with backend teams on functionality, and designed landing pages to boost lead generation.
- Contributed to OTT application development and maintenance, with a focus on performance and reliability.
- *Stack: Next.js, React.js, Angular, TypeScript, RxJS, Redux Toolkit, GraphQL, Storyblok CMS, TanStack Query, Radix UI, Tailwind CSS, CometChat SDK, Sendbird SDK, Tencent Cloud (TCIC) SDK, Chargebee, Stripe, D3.js, Chart.js.*

Frontend Developer | Champions Academy, Pune

May 04, 2022 – June 30, 2024

- Enhanced the student dashboard and website, reducing bounce rates by 30% and increasing user engagement by 20%.
- Debugged and optimized front-end performance, achieving a 30% improvement in efficiency.
- Built responsive interfaces using React.js, JavaScript, CSS, and modern web technologies.

PROJECTS

Turito Student Portal — Leading AI EdTech Platform turito.com

- Owned the largest and longest-running codebase in the platform (1,300+ commits), covering AI integrations across courses, chats, tests, study abroad, and reports.

- Built the collaborative TCIC whiteboard, SEB proctoring flow, Chargebee/Stripe payments, and Google/Apple/Clever SSO described above.
- Fixed critical bugs and shipped UI/UX improvements using React.js, Next.js, JavaScript, Storyblok CMS, Redux Toolkit, GraphQL, HTML, CSS, Bootstrap, and jQuery.

Turito-Connect — Modern Tutor Platform

- Built the tutor-facing app on Next.js, Radix UI, Tailwind CSS, and TanStack React Query, integrating CometChat for messaging.
- Implemented and fixed the Chargebee payment popup, and reused the sidebar/header iframe pattern with dynamic origin and redirect handling.

Turito Marketplace — Teacher & Counsellor Console

- Built on Angular with RxJS, CometChat and Sendbird SDKs, and TinyMCE + Wiris MathType, distinct from the React/Next.js stack used elsewhere on the platform.
- Delivered the multi-layer whiteboard, SEB proctoring dashboard, and the TCIC Electron desktop app enhancements.

UNJSPF Pension App — UN Pension Fund Client github.com/shaileshsiingh/UNJSPF-Pension-App

- Independently built a full-fledged cross-platform (iOS, Android, Web) mobile app for a UN pension-fund client, helping retired and separating UN staff navigate the UN Joint Staff Pension Fund (UNJSPF) scheme.
- Built out the full benefit structure end-to-end: an eligibility checker, benefit calculator, retirement planner, and a visual pension decision-flow chart modeling outcomes (withdrawal settlement, deferred benefit, periodic benefit) by years of service.
- Implemented dedicated modules for employer benefits, post-UN-life planning, and a resources/info center, plus profile management and account flows (signup, login, password reset).
- Integrated Firebase authentication with native and OAuth-based Google Sign-In across Android, iOS, and web, and handled Android build/release configuration (Gradle, EAS) for Play Store deployment.
- Built with React Native, Expo Router, TypeScript, Firebase, React Navigation, and React Native Paper.

Tangerine Luxury Clothing Store tang-cloth.vercel.app

- Developed a full-fledged e-commerce site with modern animations and complex 4-level category/brand navigation.
- Implemented new features, resolved bugs, and performed regular updates to maintain and improve the platform.

SKILLS

Languages & Frameworks: JavaScript (ES6+), TypeScript, React.js, Next.js, Angular, React Native, Redux Toolkit, RxJS

Platform & Real-Time: Tencent Cloud (TCIC) SDK, WebRTC/real-time collaboration, Electron, CometChat SDK, Sendbird SDK, GraphQL, Storyblok CMS, TanStack Query, Expo, Firebase

Payments & Auth: Chargebee, Stripe, OAuth (Google, Apple), SSO (Clever)

UI & Styling: HTML, CSS, Bootstrap, Tailwind CSS, Radix UI, D3.js, Chart.js

Tools & Practices: Git, Jira, DSA & problem-solving, Data Structures & Algorithms

EDUCATION

Shaheed Bhagat Singh College, University of Delhi — B.Com (P), Commerce

July 06, 2014 – June 06, 2017

Kendriya Vidyalaya, Sidhi (M.P) — Senior Secondary (12th)

May 09, 2013 – April 01, 2014

CERTIFICATIONS

Front End Development with DSA — Sharpener Institute

- Extensive training in DSA and Web Development: developed several projects using React.js, Vanilla JS, and other frontend tools.