

Prakhar Pandey

SDE-II · Frontend & Cross-Platform Engineer — React Native

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PROFESSIONAL SUMMARY

Software Engineer (SDE-II) with **5+ years** shipping production cross-platform applications in **React Native, React, and TypeScript**, serving **50,000+ users across 5 countries**. Owns product surfaces end to end — architecture, payments, security, and release engineering — with hands-on depth in native Android (Kotlin), on-device computer vision (OpenCV), and AI-assisted development workflows.

CORE TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Kotlin, HTML5, CSS3

Mobile: React Native, Expo (EAS, OTA channels, Expo Router), Android, iOS, native module bridging, MMKV

Web & State: React.js, Redux Toolkit, TanStack Query, Zustand, REST, GraphQL (Apollo), responsive UI, WCAG accessibility

AI & ML: On-device computer vision (OpenCV — face recognition, liveness detection); AI-assisted development (Claude Code, GitHub Copilot)

Security & Payments: OAuth2/OIDC (Keycloak, PKCE), SSL public-key pinning, device integrity, Razorpay, idempotent exactly-once UPI flows

Platform & Quality: Firebase Realtime DB, OneSignal, MQTT, CI/CD, Fastlane, Play Store & App Store releases, Jest, Sentry, Microsoft Clarity

PROFESSIONAL EXPERIENCE

Smartworks — Gurgaon

May 2024 – Present

SDE-II · Software Engineer, Frontend & Mobile

- **Core frontend engineer for Workctrl**, SmartWorks' enterprise workplace app for room booking, visitor management, food ordering, and ticketing — **50,000+ users across 5 countries** ([Play Store](#) · [App Store](#)): developed the meeting-room booking module end to end (quick booking, slot management, extend/end, check-in, booking on behalf of clients), flexi-seat booking, the activity timeline, in-app ratings, OneSignal push notifications with deep-link redirection, and app-wide dark/light theming.
- **Own payments and security for Workctrl**: engineered idempotent, exactly-once UPI payment flows preventing double-charges on app-switch returns; hardened the app with SSL pinning, root/emulator detection, and a native patch to a crashing jailbreak-detection library.
- **Maintain production stability at 50K-user scale**: Workctrl's latest release holds a **0.21% user-perceived crash rate and 0.06% ANR rate** (Android vitals) — roughly 5× under Google's 1.09% bad-behavior threshold, with a single crash-affected user in the past 28 days.
- **Architected SW Tickets**, the support platform powering ticket operations across SmartWorks campuses pan-India, from an empty repository to production ([Play Store](#) · [App Store](#)) — a backend-driven workflow engine where the server defines valid status transitions and form fields, enabling ops teams to change ticket workflows with zero app releases.
- **Matured SW Tickets into a production-grade codebase**: migrated the codebase from JavaScript to TypeScript, adopted TanStack Query for server state, and shipped dynamic multi-step ticket forms, search and filtering with SLA tracking, camera/file uploads, a centralized force-update system, and production observability via Sentry and Microsoft Clarity.

- **Integrated Keycloak SSO on the frontend:** WebView-based login with PKCE, auth redirection handling, secure token storage, and a single-flight token refresh that queues in-flight requests — eliminating redundant refresh calls and session drops across the app.
- **Developed on-device face recognition** with liveness detection (blink, texture, and motion analysis) in native Kotlin and OpenCV, bridged into React Native — eliminating cloud round-trips for meeting-room check-in across the tablet fleet.
- **Migrated live room-status sync** from Kafka to Firebase and re-engineered reads to a rolling booking window, **reducing Firebase reads by 80–90%** (measured, benchmarked, and documented for the team).
- **Led the Expo 53 / React Native 0.79 upgrade** and Google-mandated 16 KB page-size alignment across both apps; established EAS build pipelines with staged OTA channels and migrated release signing to Fastlane.
- **Developed concurrent IoT device discovery** (mDNS + subnet scanning) and Sonoff provisioning flows for Smart Setup, the smart-building onboarding app; review the majority of team frontend PRs and defined TypeScript and lint conventions.

Infinity Soft Systems — Noida

Dec 2022 – Mar 2024

React Native Developer

- **Developed two consumer apps end to end:** QU App, a real-time shared-room Spotify voting platform with live vote sync over Firebase, Spotify OAuth token-refresh handling, and rate-limit-resilient UI.
- **Shipped NoWorriesApp**, a mood and worry tracker, to Play Store — reduced repeat network calls via response caching and request deduplication, and owned direct client communication.

iFlair Web Technologies — Ahmedabad

Feb 2022 – Nov 2022

Frontend Developer (React & React Native)

- **Built the Clinicards patient-health frontend** for a Netherlands client on React (web) and React Native against an AWS AppSync/GraphQL backend — developed symptom-tracking flows and recovery-trend visualizations (Victory Native) with WCAG accessibility (keyboard navigation, focus order) for non-technical patients; live on Google Play.

Shantikunj — Haridwar

May 2021 – Jan 2022

Junior Software Engineer

- **Developed a video-on-demand and live-streaming application** on the YouTube API, shipping to a live user base — first production React and React Native experience.

EDUCATION

Master of Computer Applications (MCA) — Dev Sanskriti Vishwavidyalaya, Haridwar	2019 – 2021
Bachelor of Computer Applications (BCA) — Dev Sanskriti Vishwavidyalaya, Haridwar	2016 – 2019