

# Saksham Pandey

Frontend & Mobile Engineer

[saksham4200@gmail.com](mailto:saksham4200@gmail.com) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Professional Summary

Frontend & Mobile Engineer with 1.5+ year of professional experience building production React Native and Next.js applications. Focused on offline-first architecture, performant local databases, and delivering smooth user experiences on low-bandwidth and low-end devices.

## Core Skills

**Languages & Frameworks:** TypeScript, React Native (Expo), Next.js, React 18, Monorepos (Turborepo), Tailwind CSS

**State & Storage:** Zustand, TanStack Query, Redux Toolkit, MMKV, Shopify FlashList, Dexie.js

**Architecture & DevOps:** Offline-First Architecture, Local Databases (SQLite, WatermelonDB), EAS (Build/Submit), CI/CD (GitHub Actions), Detox (E2E), Playwright

## Technical Projects

### MatriBliss – Privacy-First Matrimony App

[Demo](#) | [GitHub](#)

*Tech Stack: React Native, Expo, Zustand, TanStack Query, Socket.io, PawaPay*

- Optimized app performance for 2G markets using aggressive caching and lazy loading, improving responsiveness on low-bandwidth connections.
- Built photo privacy system with Keychain/Keystore encryption, reducing app bundle size by 50%.
- Integrated PawaPay and Flutterwave payments with offline queueing and automatic retry on reconnect.
- Implemented real-time chat and notifications using Socket.io with push notification fallback.
- Built on-device image compression pipeline, reducing average network upload size by 60%.

### FieldCollect – Offline-First Data Collection PWA

[Demo](#) | [GitHub](#)

*Tech Stack: Next.js, Dexie.js (IndexedDB), Service Workers, TypeScript, Tailwind CSS*

- Achieved 96/100 Lighthouse performance score using service-worker caching and critical CSS inlining.
- Used IndexedDB with WAL journaling to prevent data corruption, with a bulk export engine supporting 5k+ records.
- Designed a dynamic form builder with conditional field logic and 20+ validation types.
- Implemented background sync with exponential backoff for reliable offline-to-online data delivery.
- Built collaborative workspace for real-time form sharing and team data aggregation.

### Engage – Social Media App

[Demo](#) | [GitHub](#)

*Tech Stack: React Native, Expo, TypeScript, Socket.io, Redis, FlashList*

- Built dynamic feed engine with chunked video upload pipeline for resumable transfers.
- Optimized inbox performance using optimistic UI updates to prevent duplicate message rendering.
- Implemented client-side text filtering to automatically detect and flag restricted content before database submission.

- Implemented stories with progressive video loading, reducing bandwidth usage by 70% on metered connections.
- Designed push notification architecture with real-time delivery tracking and graceful fallback handling.

### Finvario – Serverless Mutual Fund Tracker

[Demo](#) | [GitHub](#)

*Tech Stack: React Native, MMKV, TypeScript, Custom SVGs, AMFI API*

- Built offline-first mutual fund tracker with local indexed search across 37k+ AMFI funds under 10ms.
- Built custom SVG chart modules instead of a charting library, saving 700 KB and maintaining 60 FPS rendering.
- Implemented on-device portfolio analytics including XIRR calculations and SIP projections.
- Created local push reminders for daily NAV updates with no backend or server dependency.
- Designed accessible UI with adaptive dark mode meeting WCAG 2.1 AA contrast guidelines.

### SellPro – Amazon Seller Intelligence SaaS

[Demo](#) | [GitHub](#)

*Tech Stack: React 18, TypeScript, Redux Toolkit, Chart.js, Stripe, Amazon SP-API, Firebase*

- Rebuilt legacy SaaS dashboard using route-level code splitting, reducing initial page load time by 7x.
- Built PPC auto-bidding and inventory forecasting module to minimize stock-out scenarios for sellers.
- Implemented WebSocket-based real-time dashboard for live order and inventory event streaming.
- Built automated reimbursement engine that cross-references Amazon fee rate cards to surface recovery opportunities.
- Created PDF report export engine using Web Workers to prevent UI blocking on large SKU catalogs.

## Professional Experience

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**Frontend Engineer** | EpixelSoft | Remote

Jan 2025 – Present

- Worked across both web (Next.js/React) and mobile (React Native) production applications in multiple client projects.
- Built offline-first systems using SQLite and IndexedDB with reliable sync for low-network environments.
- Improved performance on low-end devices through bundle optimization, lazy loading, and rendering optimizations.
- Developed real-time features using Socket.io and implemented secure authentication including biometric login.
- Created reusable UI and state management patterns (Zustand, Redux Toolkit) across web and mobile apps.
- Managed CI/CD workflows and release builds using GitHub Actions and EAS, streamlining deployment process.

## Education

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**B.Tech in Computer Science & Engineering**

2021 – 2025

Dev Bhoomi Uttarakhand University, Dehradun

- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Software Engineering.
- 2x National level hackathon winner – Padmavyuh 1.0, Padmavyuh 2.0.