HARPREET KUMAR

Senior React Native & Full-Stack Engineer · TypeScript · React · Node.js / NestJS

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SUMMARY

Senior engineer with 5+ years of production TypeScript across React Native, React and Node.js. Shipped 8 mobile apps to 30,000+ combined monthly active users at a 4.7★ rating, and founded budgetSum, a live App Store product running on React Native, NestJS and MongoDB. Strong on release engineering, production reliability and payment correctness, and an everyday user of AI coding tools.

SELECTED ACHIEVEMENTS

- Sustained **99%+ crash-free sessions** across a portfolio of 8 production apps.
- Recovered from a release-only crash in **40 minutes** via OTA rollback, with the root-cause fix live within 6 hours.
- Grew **3 junior engineers** to autonomous mid-level scope, and set the PR review standard the team still uses.

EXPERIENCE

Senior Mobile / Web Application Developer — List & Sell GmbH, Berlin (Oct 2021 – Present)

- Shipped **8 React Native + TypeScript apps** (iOS and Android) to **30,000+ combined MAU** at **4.7★** for healthcare, logistics, commerce and CRM clients, owning architecture, releases and quality across the portfolio.
- Sustained **99%+ crash-free sessions** by making strict TypeScript, **Jest**, React Testing Library and **Detox/Maestro** end-to-end tests required on merge in **GitHub Actions**, with **Sentry** crash-rate alerting.
- Cut recovery from a release-only Hermes crash to **40 minutes** with an OTA rollback, then shipped the root-cause fix within **6 hours**.
- Reduced cold-start time and JS bundle size by leading the **React Native 0.71 to 0.74** migration onto Hermes and the New Architecture.
- Eliminated API contract drift between web and mobile by building a **Turborepo + pnpm monorepo** with one typed API client and enforced import boundaries, shared by a **Next.js** dashboard and React Native apps.
- Replaced an expensive feature spec with a simpler design by prototyping two options, measuring battery use and accuracy, and presenting a one-page trade-off to the client.
- Authored a **Kotlin + Swift TurboModule** (Android ML Kit, iOS Vision) behind a typed JSI API, adopted as the team pattern for every native module since.
- Mentored **3 junior engineers** to autonomous mid-level scope through weekly workshops and code review, and introduced PR review standards adopted team-wide.

Founder & Engineer — budgetSum (Mar 2024 – Present) · budgetsum.app

- Launched and operate a live App Store subscription app alone: React Native + TypeScript client, **NestJS + MongoDB** REST API, CI, monitoring and user support.
- Kept subscription entitlements correct under retried, duplicated and out-of-order webhooks by verifying signatures, handling events **idempotently** and applying **atomic conditional updates**, with the server as the single source of truth.
- Shipped **6 subscription tiers** with trials and promo offers on RevenueCat and StoreKit, and localised the product into **8 languages**.
- Covered NestJS services, auth guards and third-party integrations with **Jest** unit tests; push notifications (FCM) run as non-blocking side effects so a slow provider never fails a request.

Mobile App Developer — UIZ GmbH, Berlin (Apr 2021 – Sep 2021)

- Shipped **2 restaurant ordering apps** in React Native to the App Store and Play Store: menus, checkout with payments, real-time order tracking over Socket.io and push notifications.

- Rebuilt checkout and cart state with **Redux Toolkit**, and automated releases with Fastlane and GitHub Actions.

iOS Developer — Sebiz, Mohali, India (May 2017 – May 2018)

- Built **3 native iOS apps** in Swift / UIKit with REST APIs, OAuth2 login, APNs push and offline-first caching.

AI-ASSISTED DEVELOPMENT

- Claude Code, Cursor and Copilot daily: written plan first, implementation in small reviewed steps, every diff and test run checked before merge.
- Repository rules files, reusable skills built from my own codebase patterns, and automated review agents for code quality and security on each change.
- Shipped a customer-facing LLM assistant on the **OpenAI and Anthropic APIs** with tool calling, deliberately read-only so a human confirms every action.

PROJECTS

- **Flotix** — B2B fleet expense platform: on-device receipt scanning (ML Kit) replaced manual entry. React Native, TypeScript, Apollo GraphQL.
- **Barber X** — booking platform with React Native mobile and Electron desktop synced in real time over WebSockets, with reconnection and state reconciliation on unreliable networks.
- **harpreet-calender** — open-source React calendar component on NPM: TypeScript types, zero runtime dependencies.

SKILLS

Languages: TypeScript, JavaScript, Kotlin, Swift, SQL

Frontend: React, Next.js, Redux Toolkit, Zustand, React Query, Apollo GraphQL, Tailwind / NativeWind, accessibility (WCAG 2.1 AA), i18n

Mobile: React Native (Expo and bare), iOS, Android, Hermes, New Architecture (Fabric, TurboModules), JSI native modules, App Store and Play Store releases

Backend: Node.js, NestJS, Express, MongoDB (Mongoose), REST API design, GraphQL, webhooks, idempotency, OAuth2 / OIDC, JWT

Cloud & DevOps: AWS (Amplify, ECS, EC2), Vercel, GitHub Actions, Fastlane, EAS, staged rollouts, OTA updates

Testing & monitoring: Jest, React Testing Library, Detox, Maestro, Sentry, Crashlytics, ESLint, Prettier

AI: Claude Code, Cursor, GitHub Copilot, OpenAI and Anthropic APIs (tool calling)

EDUCATION

MSc IT Security Management — Arden University, Berlin *(2019 – 2020)*

B.Tech Computer Science and Engineering — Punjab Technical University, India *(2015 – 2018)*

LANGUAGES

English (C1) · German (A2) · Hindi (B2) · Punjabi (native)