

Kamlesh Bachani

SENIOR SOFTWARE ENGINEER

Bengaluru, Karnataka · +91 7405552463 · bachani62@gmail.com · [linkedin.com/in/kamlesh-bachani](https://www.linkedin.com/in/kamlesh-bachani) · github.com/kamlesh-bachani

Summary

Senior full-stack engineer with 7+ years across mobile and web — leading client products end to end and owning hard subsystems on large enterprise teams. Ships React Native / Expo, React / Next.js, and Vue / Nuxt frontends on Node (NestJS, FeathersJS) backends with MongoDB, MySQL, and Redis — across consumer apps with 500K+ downloads, revenue-generating e-commerce, and enterprise platforms serving thousands. Particular depth in real-time systems, payments (multi-gateway checkout, distributed orchestration), and applied AI — agentic LLM tool-use and production RAG in shipped products.

Skills

Mobile	React Native (bare + Expo), New Architecture + React Compiler, Expo Router, Zustand + MMKV (offline-first), Reanimated, custom native modules (Swift / Kotlin / Java), HealthKit / Health Connect, WebRTC (Stream, CallKeep, VoIP push), FCM / Notifee, CodePush, EAS, Fastlane
Backend	Node.js, TypeScript, NestJS, FeathersJS, Express, REST API design, MongoDB (Mongoose, Prisma), MySQL (Knex / Objection), Redis + BullMQ, socket.io / WebSockets, SSE, Swagger
Web	React, Next.js (App Router), Vue / Nuxt, TanStack Query, TailwindCSS, shadcn / Radix, React Hook Form + Zod
Applied AI / LLM	Claude agentic tool-use + SSE streaming, OpenAI GPT-4o, production RAG (Qdrant, Azure OpenAI, Cohere), on-device inference (llama.rn / GGUF), document AI (Azure Doc Intelligence OCR)
Payments	Stripe (subscriptions, webhooks, dunning), PayPal (+ custom native vault), Razorpay, BillDesk, Apple / Google IAP
Cloud & Integrations	AWS (S3, MediaConvert), Azure (Entra ID SSO, Blob, OpenAI), Firebase; Darwinbox HRMS, Databricks, MuleSoft
Practices	Jenkins CI/CD, Fastlane + TestFlight automation, Sentry (tracing, session replay, PII scrubbing), Jest, Playwright, Maestro / Detox, AI-paired development (Claude Code, JetBrains Junie), Agile / Scrum

Experience

Team Pumpkin

01/2022 – Present

Senior Software Engineer · Bengaluru, India

Designed, built, and led client products across mobile and web within an agency engineering team. Selected work:

Wellness & lifestyle platform – iOS / Android / web

- Lead engineer on a cross-platform platform (~250K LOC, 4-app monorepo; NestJS + Prisma, 99-model schema) spanning subscriptions, content publishing, health tracking, and gamification.
- Built an in-app AI companion on an agentic Claude tool-use loop (intent classification, round-guarding, multi-tool) streamed over SSE with mid-stream disconnect cancellation.
- Implemented Stripe subscription billing (webhook signature verification, dunning) with Apple / Google IAP receipt validation; hardened auth with JWT revocation and a role-based access matrix.
- Shipped on React Native's New Architecture + React Compiler; built custom platform-split HealthKit / Health Connect modules and timezone / DST-aware recurring notifications.
- Stood up CI/CD (Jenkins → Fastlane → TestFlight) and a ~200-test suite (Jest, Maestro E2E, Playwright); instrumented Sentry with PII scrubbing, tracing, and session replay.

Social-discovery & events marketplace – iOS / Android / web

- Co-led consolidating three standalone apps into a single monorepo (~120K LOC, 285 REST routes, 20 socket events); top contributor (119 commits) on a 3-engineer team.
- Designed distributed payment orchestration on BullMQ / Redis — deterministic job IDs for idempotency, retries, cascading refunds, regional tax — across Stripe and PayPal.
- Built a 20-handler real-time messaging engine (socket.io) with Redis socket-session mapping, optimistic reconciliation, and an offline-first MMKV queue for poor networks.
- Authored a custom native PayPal Vault module (Swift / Kotlin); integrated Stream WebRTC voice / video with CallKeep and VoIP push.

Enterprise employee-experience portal

- Built a corporate intranet serving thousands of employees (~215K LOC, ~20 modules): Express / TypeScript API (104-model schema), NestJS RAG microservice, Python extraction sidecars.
- Engineered a production RAG assistant (Qdrant + Azure OpenAI + Cohere) exposing a 36-tool agentic chat over a hardened WebSocket gateway, with ACL-aware retrieval filtered to each user's permissions.
- Implemented Entra ID (Azure AD) SSO with AD-group-to-role mapping and a granular RBAC engine (7 roles, ~90 permissions); integrated 8 scheduled enterprise syncs — Darwinbox HRMS, Databricks, MuleSoft — with policy versioning and audit workflows.

Contract-management SaaS — B2B document workflow

- Built a multi-tenant SaaS where a two-stage AI pipeline (Azure OCR → GPT-4o) auto-classifies uploaded contract PDFs and extracts fields into a folder hierarchy; designed the pipeline to be idempotent and re-entrancy-guarded.
- Implemented multi-tenant RBAC (org → branch), passwordless email-OTP auth, real-time WebSocket updates, and MongoDB full-text search with match highlighting and ReDoS protection.

Company-store e-commerce platform — Feathers + Nuxt / Vue

- Lead developer (~70% of commits) and CODEOWNER on a branded-merchandise e-commerce platform generating ₹1M+ in revenue; built the commerce vertical end to end (Feathers backend, Nuxt / Vue frontend).
- Integrated Razorpay (order creation, webhook signature verification, refunds) and BillDesk (custom redirection flow) behind a cash-plus-loyalty-points hybrid checkout with coupons and multi-currency.
- Built the cart / checkout / order engine and the admin back-office (catalog, variants / SKUs, inventory, offers) with refresh-token auth.

Enterprise LMS / e-learning platform — FeathersJS API + Next.js 14 web

- Contributor and CODEOWNER on a production LMS used by 5,000+ employees at a healthcare-staffing client; owned cross-cutting verticals across the FeathersJS backend and Next.js 14 client.
- Built real-time collaborative course authoring (Google-Docs-style field-level locking, live presence over socket.io); owned certificate generation (HTML → PDF via Puppeteer) and BullMQ + Redis background jobs.

K-12 EdTech gamified learning platform — Feathers API + Nuxt / Vue

- Contributor and repo CODEOWNER on a large-team (~30 engineers) production platform with 500K+ downloads; owned the gamification vertical end to end (Feathers backend, Nuxt / Vue frontend).
- Built concurrency-sensitive Redis sorted-set leaderboards (today-vs-overall sets, relative-rank windows) with Bull-queue and cron-based resets, plus a peer-to-peer trade economy (points, badges, trophies).

Additional production apps

Also shipped a real-time multiplayer trivia game (Godot in a React Native WebView via a postMessage bridge) and further client apps in healthcare (Agora live video, custom Java call module), dating / experiences (CodePush OTA), employee advocacy, and pharmacy e-commerce.

TruWork

12/2020 — 12/2021

Frontend Developer · Ahmedabad, India

- Built responsive, accessible web and mobile interfaces and integrated REST APIs with backend teams for dynamic features.
- Optimized UI rendering and state management to cut page-load and interaction latency; shipped pixel-accurate designs with design and backend teams.

EmpowerED CAT

01/2019 — 12/2020

Frontend Developer · Ahmedabad, India

- Built interactive CAT exam-prep tools and a content management system for delivering study materials.
- Applied systematic testing and debugging to improve platform stability and reduce reported bugs and downtime.

Open Source

Zustand Expo DevTools (npm) — Expo Dev Tools plugin bridging Zustand state into a web UI with time-travel action history and state diffing; on-device middleware with production dead-code stripping. github.com/kamlesh-bachani/zustand-expo-devtools

Education

M.Sc., Information Technology

2017 — 2019

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar

B.Sc., Computer Science

2014 — 2017

The Maharaja Sayajirao University of Baroda, Vadodara