

Aman Prajapati

Full Stack Product Engineer

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More technical depth: architecture diagrams, design decisions and measured results for every project below are on my portfolio, amanprajapati.co.in.

SUMMARY

Sole engineer on a production enterprise platform live on web, the App Store and Google Play: I design, build, deploy, secure and run it, from Flutter and Node.js down to Ubuntu, AWS and MongoDB. Before this, a year of Flutter at Ariantech Solutions and over two years remote as full stack developer and co-founder of Ezzstar.

SKILLS

Languages: JavaScript, TypeScript, Dart, Python, SQL, Bash

Backend: Node.js, Express, NestJS, REST API design, JWT with refresh tokens, rate limiting, idempotency, webhooks, Socket.IO, distributed locks, event-driven services on Redis Streams, transactional outbox

Frontend and mobile: Flutter and Dart with GetX, Provider and Riverpod, offline-first with Hive, SQLite and secure storage, Firebase Cloud Messaging, background location, App Store and Play Store release management; React 19, Next.js 15, Angular, Tailwind CSS

Databases: MongoDB and Mongoose, aggregation pipelines, Change Streams, schema and index design, mongodump and mongorestore, PostgreSQL, Redis, SQLite

Cloud and DevOps: AWS S3 (Object Lock, lifecycle), SDK and SES, DigitalOcean (Droplets, Spaces, CDN), Oracle Cloud VMs, Cloudflare (WAF, edge rate limits), Docker Compose, Nginx reverse proxy, PM2, Ubuntu, Vercel, GitHub Actions CI/CD with health checks and auto-rollback, TLS and Let's Encrypt, DNS, SPF, DKIM, DMARC

Security and reliability: private object storage, pre-signed URLs (AWS Signature V4) and HMAC-signed links, origin firewalling, secrets out of source control, SSH hardening and key-only auth, fail2ban, RBAC with least privilege, immutable audit logging, backups with restore verification, incident response and root-cause analysis, Sentry, PostHog

Also: Google Gemini API, TensorFlow Lite, BEP20 and BNB Smart Chain, Git, applied data structures in production (Trie, BK-tree, LRU, Bloom filter). English and Hindi fluent.

EXPERIENCE

Full Stack Product Engineer | Indepesca Overseas Pvt. Ltd., Mumbai, India | appbigsams.in | Apr 2026 to Present

BigSams OMS, an enterprise order management platform serving **300+ internal users** across five departments and 20 roles. One engineer: product, backend, mobile, web, infrastructure and security.

Responsibilities:

- Take requirements directly from the CFO, CEO and department heads
- Build and ship the web console, mobile app and backend
- Own security, access control and backups
- Own architecture, data model and API design
- Run production and UAT: deployments, monitoring, incident response
- Manage App Store / Play Store releases; report engineering ROI to leadership

Stack: Node.js · Express · MongoDB Atlas · Redis · Socket.IO · Flutter · Hive · SQLite · Firebase Cloud Messaging · Google Maps · Angular 19 · React 19 · AWS S3 (Object Lock) · DigitalOcean Droplet + Spaces · Cloudflare (WAF) · Nginx · PM2 · Docker · GitHub Actions · Gemini API · Resend · Google Apps Script · Sentry · PostHog

Built the backend. 420+ REST endpoints in stage-organised route modules, roughly 58,000 lines of Node.js, driving a 10-stage, 40-state order lifecycle over booking, pricing, dispatch, invoicing and GST, with JWT and refresh tokens, rate limiting, idempotency keys and Excel and PDF generation; CI/CD on GitHub Actions with health checks and automatic rollback.

Owned the data layer. 42 Mongoose schemas, aggregation pipelines, Change Streams, transactions and Redis caching; a billing-rate resolver prices lines at the distributor rate, so Sales and Finance reconcile to the rupee.

Built the mobile app for iOS and Android — 60+ screens and roughly 73,000 lines of Dart, live on both stores. Offline-first on Hive, live GPS delivery tracking, barcode batch picking, camera capture for PODs and QC photos, push notifications and live Socket.IO updates.

Built the backup system end to end, and proved it restores. Nightly mongodump of production and UAT into S3 with Object Lock, so a stolen key cannot delete them; a restore drill reconciled 123,706 documents, 0 mismatches, for \$0.22 a month.

Handled a production security incident end to end. 143 collections dropped in a ransom attack. Built the timeline from the oplog and found the cause in auth.log: 119,012 failed SSH attempts and one root login traced to a drop-in sshd_config.d file overriding the hardened value. Closed it with key-only auth, fail2ban, an SSH tunnel for database access and a credentials vault.

Took customer files from public to private without breaking any client. 1,920 PODs, invoices and QC photos were public-read behind a CDN. Made every object private, and the API now signs each link on the way out (AWS Signature V4 pre-signed URLs, 60 to 90 minute expiry) while the database keeps only permanent URLs; an Nginx proxy at files.appbigsams.in serves them. Verified: 0 files reachable without a signature.

Put the platform behind Cloudflare and locked the origin. WAF and edge rate limits on auth routes; the firewall accepts web traffic only from Cloudflare; credentials moved out of the repository.

Automated the daily data. OD ageing and distributor-rate sheets import themselves from the finance mailbox (Gmail Apps Script to a secret-protected endpoint, raw files kept as backups); server-side pricing rules route MRP-priced lines to Price Approval.

Performance, access control and AI. Search from 200ms to under 10ms across 5,600+ records with a Trie and BK-tree index, dashboard load from 8s to under 1s with an LRU cache cutting roughly 85% of queries, and duplicate orders eliminated with a Bloom filter; Gemini 2.0 Flash credit-risk scoring.

Mobile Application Developer | Ariantech Solutions, Mumbai, India | ariantechsolutions.com | Apr 2025 to Apr 2026

Flutter development for Android and iOS, including work on a Jaguar Land Rover India project. Built **SmartAssist Pro**, an automotive dealership CRM live on the App Store and Google Play, rated 4.9 with 1,000+ downloads.

Responsibilities:

- Build Flutter features from client requirements
- Manage App Store and Play Store releases
- Integrate REST APIs and auth flows; fix bugs
- Agree scope and timelines with the backend team and client

Stack: Flutter · Dart · GetX · Provider · REST · speech_to_text · table_calendar · fl_chart · flutter_screenutil · App Store and Play Store release

Built and shipped the app end to end. 18 screens, ~23,000 lines of Dart: enquiries, follow-ups, test drives, service appointments and reminders, with voice-to-text remarks and fl_chart dashboards.

Full Stack Developer and Co-Founder | Ezzstar, Oman | Remote | ezzstar.space | Jan 2023 to Apr 2025

Responsibilities:

- Set technical direction and architecture
- Plan delivery; build frontend, backend and smart-contract integration
- Lead, review and hire for a twelve person remote team
- Own deployment, servers and backups

Stack: MongoDB · Express · Node.js · Angular · Next.js 15 · DigitalOcean · Nginx · AWS S3 · BEP20 on BNB Smart Chain

Built and shipped the public platform of a Web3 entertainment product on a single token economy: Next.js 15 on the App Router with Turbopack, with wallet connection and an on-chain purchase flow settling in USDT and USDC against a BEP20 contract on BNB Smart Chain, plus MongoDB, Express, Node.js and Angular services on DigitalOcean with backups to AWS S3.

PROJECTS

SEIKA, gaming zone OS | TypeScript, Express, MongoDB, Next.js 15, Electron, Socket.IO, Razorpay | github.com/Aman1945/SEIKA — pnpm monorepo: 23-module API (~98 endpoints, 167 tests), owner dashboard, player PWA and Electron PC kiosk. A session engine gates PC unlock across 6 payment sources; Decimal128 append-only wallet ledger; idempotent HMAC-verified Razorpay webhooks.

Clip View & Payout Pipeline | Node.js, TypeScript, Redis Streams, PostgreSQL 17, Docker — five broker-only services with exactly-once effects (dedup ledger, transactional outbox); 22.8M events in 31 min, 609/609 checks after SIGKILLing each service mid-burst, top-clips p95 51 ms.

SABRE, on-device face recognition | Flutter, TFLite, ML Kit, SQLite — detection, 5-point alignment, 192-D MobileFaceNet embeddings on the phone, margin-based matching, offline-queued audit sync to an Oracle Cloud API.

NexusERP | NestJS, PostgreSQL — 224 endpoints, 76 tables, double-entry enforced as an invariant. **GH Manager** | Flutter Web, Express, MongoDB on an Oracle Cloud VM — 3-role booking system, room state driven by bookings. **Open Rails for Apple Silicon** | C#, .NET 8 — native macOS port of a Windows-only train simulator.

EDUCATION

Master of Computer Applications (MCA), Mumbai University, 2022 to 2024 | **B.Sc. Computer Science and Technology,** Mumbai University, 2018 to 2021