

IDRIS ATTAR

SENIOR FULL-STACK ENGINEER

TypeScript, React, Node.js, PostgreSQL, Event-Driven Systems, Applied AI
Pune, India | +91 91560 21072 | idrisattar@icloud.com | LinkedIn | GitHub | Portfolio
Open to Remote, Contract and Hybrid Roles

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 6+ years of experience designing, building, deploying and operating SaaS, commerce, point-of-sale, payment and AI-enabled products. Strong in TypeScript, React, Node.js, AdonisJS, PostgreSQL, Flutter, Firebase and production troubleshooting. Owns systems end to end, from domain modeling and transactional workflows to frontend architecture, testing, deployment and observability. Delivered 65% fewer database reads, 2x faster application loading, accessibility gains from 71 to 96, 99.98% uptime and 816 passing tests.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Dart, Python, SQL, HTML5, CSS3

Frontend: React, Next.js, Inertia.js, Flutter, React Native, Angular, Ionic, Tailwind CSS, Storybook, accessibility

Backend and Data: Node.js, AdonisJS, Express, FastAPI, REST APIs, PostgreSQL, Firebase, Firestore, Redis, IndexedDB, Neo4j

Architecture: Multi-tenancy, RBAC, modular monoliths, microservices, DDD, event-driven systems, Saga, outbox/inbox, idempotency

Messaging and AI: Apache Kafka, RabbitMQ, OpenAI API, BoundaryML BAML, structured outputs, typed tools, streaming, RAG, Hugging Face

Quality and DevOps: Japa, Playwright, Vitest, Jest, Pytest, Docker, Coolify, Cloudflare, AWS, Terraform, GitHub Actions, Sentry, Datadog

PROFESSIONAL EXPERIENCE

KyoskGo | Pune, India / Remote

Apr 2026 - July 2026

Founder and Full-Stack Product Engineer

- Founded and independently engineered a public multi-tenant SaaS platform for storefronts, catalogs, orders, invoices, payments, bookings, quotations, CRM, teams, reviews, subscriptions and QR attribution.
- Designed a domain-oriented modular monolith with AdonisJS 7, React 19, Inertia.js and PostgreSQL across 87 controllers, 139 services, 55 models, 141 migrations and 168 frontend pages.
- Implemented server-authoritative checkout with pricing, discounts, taxes, delivery charges, inventory validation, row locking and transactional order and invoice creation.
- Built tenant isolation, granular RBAC, feature gates, authentication, Google OAuth, 2FA, rate limiting, CSRF and CSP controls, audit logging and webhook verification.
- Developed Redis-backed background jobs with retry, backoff and recovery, plus health checks and observability through Sentry, PostHog and structured logging.
- Built and maintained 816 passing unit, functional, integration, contract, invariant, user-story and browser tests using Japa, Playwright and coverage tooling.
- Deployed and operated kyoskgo.com with Docker, Coolify, PostgreSQL, Redis and Cloudflare, maintaining 99.98% uptime and Lighthouse scores of 97 Performance, 98 Accessibility, 92 Best Practices and 100 SEO.

Layopay | United Kingdom / Remote

Sep 2023 - Oct 2025

Senior Software Engineer

- Served as the sole engineer responsible for architecture, product development, integrations, CI/CD, releases and production support for a UK multi-merchant POS platform.
- Built merchant, transaction, checkout, order, payment, reporting, device and role-based workflows using Flutter, Dart, Firebase and Firestore.
- Reduced Firestore reads by 65% and doubled loading performance through caching, query optimization, state-management improvements and removal of redundant fetches.
- Designed adapter-based integrations for Rapyd, PAX, TidyPay and Sunmi, including payment-device applications for accepting payments and synchronizing transaction results.
- Implemented retries, transaction recovery and production failure handling across payment terminals and ESC/POS printers, while owning GitHub Actions, Azure Pipelines and Datadog monitoring.

Neosoft | Pune, India

Sep 2022 - Sep 2023

Software Engineer

- Contributed across multiple client projects involving React, React Native, TypeScript, API integrations, cloud infrastructure and CI/CD in a service-based engineering environment.
- Revived a stalled React Native project by diagnosing unstable modules, rewriting critical functionality in TypeScript and returning the MVP to a releasable state.
- Built reusable React components and Storybook design-system foundations, and coordinated with frontend, backend, QA, CI/CD and DevOps engineers across delivery tasks.
- Automated AWS infrastructure with Terraform, including EC2 Spot Fleets and S3 lifecycle policies, while guiding engineers through architecture, debugging and code review.

PROFESSIONAL EXPERIENCE CONTINUED

CreativityIT | Kuwait City, Kuwait
UI/UX Engineer

Nov 2018 - Nov 2021

- Designed and developed frontend experiences for more than 50 web and mobile applications across e-commerce, business and consumer-product use cases.
- Owned user flows, wireframes, interactive prototypes, design systems and production frontend implementation using Angular, Ionic and TypeScript.
- Created and maintained reusable Storybook component libraries supporting responsive layouts, RTL, cross-browser behavior and multi-brand theming.
- Conducted UX research and WCAG audits, improving a Lighthouse accessibility score from 71 to 96 through design and implementation changes.

SELECTED ENGINEERING PROJECTS

Typed Generative UI and AI Interaction Suite

- Built typed, streaming AI interfaces for resume parsing, RAG question answering, book analysis, recipe generation, journal insights and LLM-controlled tasks.
- Used BAML schemas for validated structured outputs and tool calls, streaming partial results into approved React components instead of unrestricted markup.
- Implemented partial-response rendering, typed state mutations and reusable AI interaction patterns across multiple domain-specific interfaces.

Technology: Next.js, React, TypeScript, BoundaryML BAML, OpenAI API, structured outputs, tool calling, streaming, RAG

River Privacy-First AI Journal

- Built an offline-first journal with IndexedDB storage, AES-GCM encryption, PBKDF2-derived keys, autosave, mood tracking and optional OpenAI or Ollama assistance.
- Implemented typed BAML analysis for emotional tone, themes, triggers, coping suggestions and next steps, with Neo4j memory-graph synchronization.
- Added modular storage repositories, provider-switching, Storybook components and automated tests for privacy-sensitive journaling workflows.

Technology: Next.js, React, TypeScript, IndexedDB, WebCrypto, BAML, OpenAI, Ollama, Neo4j, Vitest, Storybook

TRIBE v2 Media Response Lab

- Built an asynchronous video, audio and text analysis platform with FastAPI, PostgreSQL, Redis/RQ workers, persisted artifacts and non-clinical cortical-response visualization.
- Created a React Three Fiber brain viewer synchronized to media playback and added TRIBE v2 and Llama 3.2 3B integration paths.
- Implemented queued job states, failure reporting, downloadable artifacts, local or S3-compatible storage, and Pytest and Vitest coverage.

Technology: Next.js, React, FastAPI, Python, PostgreSQL, Redis, RQ, React Three Fiber, Hugging Face, TRIBE v2, Docker

QuickBite Event-Driven Microservices

- Built order, inventory, payment, notification and audit services with separate PostgreSQL databases and independently owned service state.
- Used Kafka for retained domain events and RabbitMQ for acknowledged payment commands with bounded retries and dead-letter routing.
- Implemented a choreography Saga, transactional outbox/inbox, idempotent consumers, compensating actions and end-to-end failure scenarios.

Technology: TypeScript, Node.js, PostgreSQL, Apache Kafka, RabbitMQ, Docker, Vitest, microservices, Saga, transactional outbox

PROFESSIONAL DEVELOPMENT

Independent Technical Development | Dec 2021 - Aug 2022 and Nov 2025 - Mar 2026 - Built private full-stack and AI projects while deepening TypeScript, distributed systems, microservices, Kafka, RabbitMQ and modern engineering practices.

EDUCATION

Diploma in Computer Science | Pacific University, Udaipur | 2013 - 2016