

Yuri Correa

Senior Full Stack / Mobile / Blockchain Engineer

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PROFESSIONAL SUMMARY

Senior engineer with 14+ years of experience shipping mobile, web and blockchain products — from React Native apps for large enterprises (Farfetch/Stadium Goods, Zona Sul, Cativa Digital) to Go payment gateways, Solana platforms and AI-powered SaaS built as a technical co-founder. Track record of measurable impact: cut app cold-start time by 70%, reduced release cycles from hours to seconds across 300+ app builds, helped take a supermarket app from 2 to 4.6 stars, and delivered NFT platforms with 2,000+ ETH in primary sales. Owns products end to end — architecture, backend, mobile, infrastructure, security and CI/CD — with a focus on fintech-grade correctness (double-entry ledgers, idempotency, security audits) and AI-augmented engineering.

CORE COMPETENCIES

Mobile	React Native, Expo (EAS), Kotlin, Objective-C, Reanimated, MMKV, Vision Camera / ML Kit, push notifications
Frontend	React, Next.js, TanStack (Start, Router, Query), Vite, Tailwind, Hotwire, Astro, PixiJS, GSAP
Backend	Go (chi, Fiber), Node.js / TypeScript (Express, Fastify, tRPC), Ruby on Rails, Python (FastAPI), Deno
Data & Messaging	PostgreSQL, TimescaleDB, Redis (Streams), NATS JetStream, RabbitMQ, Sidekiq, Prisma, Supabase, Convex
Fintech	Pix / PSP integrations, double-entry ledgers, idempotency, reconciliation, HMAC webhooks, Stripe
Web3 & Blockchain	Solidity, Hardhat, Foundry, Ethereum / EVM, Solana (web3.js, SPL, Metaplex), DEX integrations (Raydium, Orca, Meteora, Jupiter), Tron
AI	Claude API, Gemini, vision-language models, local models (Ollama, MLX), LLM cost routing, Claude Code agents & skills
Cloud & DevOps	Docker, AWS, GCP, Firebase, Cloudflare (Pages, Workers, Tunnel, Access), Caddy, Nginx, GitHub Actions, Fastlane, Bitrise, blue/green deploys
Quality & Security	Jest, Detox, Vitest, Go property & fuzz testing, testcontainers, pytest, OpenTelemetry, Prometheus, gosec / govulncheck, security audits

PROFESSIONAL EXPERIENCE

Senior Mobile Engineer · Cativa Digital October 2023 – September 2026

- Reduced white-label app build and release time from hours to seconds by redesigning CI/CD pipelines with Fastlane and GitHub Actions, enabling continuous delivery across 300+ mobile app builds.
- Built and maintained scalable mobile applications in React Native, extending the ecosystem with Next.js and Node.js web services.
- Piloted custom AI agents (Ollama) to automate internal engineering workflows.

Stack: React Native, Fastlane, GitHub Actions, Next.js, Node.js, AWS, Firebase, Zustand, React Query, Ollama

Technical Co-founder & Full Stack Engineer · Independent Ventures / Freelance June 2021 – Present

- Architected and delivered 15 end-to-end NFT and decentralized platform projects, driving 2,000+ ETH (~R\$20M) in primary sales volume.
- Engineered secure Solidity smart contracts for DeFi and NFT ecosystems, with a focus on security and auditability.
- Since 2025, partnered as technical co-founder on 20+ products across fintech, Web3, gaming, proptech and AI — owning architecture, code, infrastructure and security, and shipping production-ready, security-audited systems (see Selected Projects).
- Recruited and led multidisciplinary teams — artists, developers, and community managers — from concept to launch.

Stack: Go, Node.js / TypeScript, Ruby on Rails, Python, React Native, Next.js, Solidity, Solana, PostgreSQL, Redis, Docker, Cloudflare, AWS

Senior Mobile Engineer · FCamara Consulting & Training — Client: Farfetch / Stadium Goods January 2023 – February 2024

- Cut the app's cold-start (splash screen) load time from 7s to 2s (-70%) by designing a disk-and-memory caching strategy, improving perceived performance for end users.
- Led the Stadium Goods mobile team, integrating custom native libraries (Objective-C/Kotlin) and expanding automated test coverage with Detox and Jest.

Stack: React Native, Objective-C, Kotlin, Detox, Jest, MMKV, Firebase, Bitrise

Blockchain Developer · Starter Labs (New York, USA)

September 2022 – November 2022

- Migrated the smart contract deployment pipeline from Truffle to Hardhat, streamlining testing and release workflows.
- Built RESTful APIs in Node.js integrated with React.js interfaces, establishing core architectural standards.

Stack: Solidity, Node.js, React.js, Hardhat

Senior Mobile Engineer · Cativa Digital

March 2018 – April 2022

- Architected and maintained a white-label social media application in React Native, scaling the same codebase to power apps for ~30 clients.
- Streamlined the build process with custom Expo-based scripts for automated binary generation.

Stack: React Native, Next.js, Redux, Firebase, GCP

Senior Mobile Engineer · CoreBiz — Client: Zona Sul

March 2020 – August 2021

- Rebuilt the Zona Sul supermarket app from a 2-star legacy version into a 4.6-star app — still live today on the original architecture — driving 30%+ revenue growth in the first months post-launch.
- Acted as technical lead, defining coding standards and supporting cross-functional React Native teams using GraphQL and VTEX integrations.

Stack: React Native, Redux, GraphQL, VTEX

SELECTED PROJECTS

Products I co-founded as technical partner and engineered end to end. Client and brand names omitted, except for my own app.

Sextou — Event discovery app

iOS & Android · Live on the App Store · 2026

apps.apple.com/us/app/sextou/id6781391524

- Built solo, end to end, in ~3 weeks from first commit to App Store: Expo / React Native app (5 languages, Apple & Google sign-in, push notifications, live updates), Rails 8 API with a Hotwire admin dashboard, and a Next.js marketing site.
- Designed a scraping pipeline over 12 ticketing platforms — hourly staggered jobs, a versioned message contract over Redis Streams, idempotent ingestion and cross-source dedup — aggregating ~2,300 events across Rio de Janeiro and São Paulo; handled bot protection with browser TLS impersonation.
- Shipped personalized ranking, first-party analytics (19 event types, funnels, viewability-based impressions), a push-campaign engine with rule-based audiences, and venue guest lists — running 8 Docker services behind Caddy and Cloudflare.

Stack: React Native (Expo), Ruby on Rails 8, Hotwire, Sidekiq, PostgreSQL, Redis Streams, Python, Playwright, Next.js, Docker, Cloudflare

Pix Payment Gateways & Banking Platform

Fintech · In production · 2026

- Built two multi-merchant Pix payment gateways running in production with real merchants: Go hexagonal monoliths with a double-entry ledger, transactional outbox over NATS JetStream, idempotency keys, and a pluggable acquirer registry (6 PSP adapters, weighted routing, failover, circuit breaker, reconciliation).
- Led the migration of the second gateway from Node/Fastify/Prisma to Go (integer-cent money, ledger-derived balances, TOTP-protected withdrawals), adding hosted checkout, Pix & USDT payouts and a 3-level affiliate program; started a banking-as-a-service portal with reconciliation of ambiguous transfers.
- Enforced quality with unit, integration (testcontainers), property-based and fuzz tests plus an adversarial security suite, a 70% coverage gate (76.7% reached), gosec / govulncheck, and blue/green deploys measured at zero failed requests.

Stack: Go, chi, PostgreSQL, Redis, NATS JetStream, React, Vite, OpenTelemetry, Prometheus, Docker, Caddy, Cloudflare, GitHub Actions

White-label Pix ↔ USDT Exchange

Fintech / Crypto · Staging · 2026

- Architected a white-label BRL/USDT exchange (customer app and operator console) and a multi-tenant liquidity provider in Go, on a multi-asset double-entry ledger with invariants enforced by database triggers and 100+ SQL-verified guarantees in CI.
- Implemented binding quotes with treasury position bands, Pix PSP routing with weighted failover, EVM chain indexing (Ethereum, BSC, Polygon, Tron) with reorg quarantine, HMAC-signed webhooks, tiered KYC and encrypted PII with key rotation.

Stack: Go, PostgreSQL, TimescaleDB, Redis, React 19, Vite, Foundry / Solidity, Docker, Cloudflare, GitHub Actions

Real-time Multiplayer Crash Game

Gaming · 2026

- Co-built a white-label crash game: Go / Fiber WebSocket round engine, PixiJS 8 browser client (replacing an Unreal Engine prototype), and HMAC-signed server-to-server wallet integration with operator platforms.
- Implemented provably fair outcomes (SHA-256 hash chain + HMAC-SHA512) validated by a 10M-round simulation (96.96% RTP vs. 97% target); remediated 83 security-audit findings — including double-spend, replay and pay-after-crash — with idempotency keys, row locking and unique constraints.

Stack: Go, Fiber, WebSockets, PixiJS, PostgreSQL / TimescaleDB, templ, Docker, Cloudflare R2

Solana Token Launch Platform & Trading Terminal

Web3 · Live · 2025–2026

- Launched a non-custodial Solana token-launch web app on Cloudflare Workers (TanStack Start, React 19): token creation, liquidity pools on 4 DEXs, aggregator swaps and embedded wallets via email login, plus a Manifest V3 Chrome extension published on the Chrome Web Store.
- Built the backend of a real-time launch/trading terminal (tRPC, WebSockets, PostgreSQL, Redis, RabbitMQ) that builds and lands transactions across 6 launchpads/DEXs with priority-fee bundles, hardened against SSRF, IDOR and double-spend races; plus a Go market-data pipeline feeding real-time OHLC charts from TimescaleDB.

Stack: TypeScript, React, TanStack Start, tRPC, Go, Solana web3.js, Metaplex, Jupiter, Raydium, Supabase, Cloudflare Workers, Docker

Multi-tenant Real-Estate SaaS with AI Document Extraction

PropTech · In use by a client · 2026

- Co-built a white-label CRM for land-subdivision sales (FastAPI, PostgreSQL, Next.js 16) with per-tenant subdomains and on-demand TLS, granular RBAC, append-only audit log, an offline-first PWA for field sales, and ~400 backend tests in CI.
- Designed an AI pipeline that extracts lot data from site-plan PDFs with swappable vision-language models (Gemini, local Qwen-VL via MLX, Ollama, Claude); benchmarked the models and shipped a hybrid flow of AI extraction plus correction on an interactive map.

Stack: Python, FastAPI, SQLAlchemy, PostgreSQL, Next.js, OpenSeadragon, Konva, Playwright, Docker, Caddy, GitHub Actions

Commission Program SaaS for E-commerce Brands

E-commerce · In production · 2026

- Built multi-tenant support (stores, per-store admins, super-admin) for a production referral and commission portal integrated with VTEX, and security-hardened it: JWT signature validation, locked-down SECURITY DEFINER functions, RLS-scoped reads and an authorization test suite.

Stack: Deno, Fresh, Preact, Supabase, PostgreSQL, VTEX, GitHub Actions

AI Life-Simulation Game

Mobile / AI · Prototype · 2026

- Built a persistent world where LLM-driven characters live autonomously and react to their owner's real-life signals (weather, steps, mood): React Native app, Fastify + Socket.io API, PostgreSQL (68 tables) and Redis, with cost-aware model routing (Claude Haiku vs. Sonnet) and a tiered tick scheduler to cut API calls.

Stack: React Native (Expo), TypeScript, Fastify, Socket.io, PostgreSQL, Drizzle, Redis, Claude API, Imagen

Real-time QR Ordering SaaS for Kiosks

Food service / SaaS · Prototype · 2026

- Built a no-install ordering flow: customers scan a single-use QR code per tab, order, chat with staff and track their bill in real time; tabs are invalidated on close and expire after 3 hours. Added Stripe subscriptions (checkout, billing portal, webhooks, coupons) and a trilingual PWA (EN, PT-BR, ES).

Stack: Next.js 16, React 19, Convex, Stripe, next-intl, Tailwind, PWA

Other builds: Token presale platform with multi-chain custodial deposits (Express, Prisma, ethers, TronWeb, RabbitMQ) · Live-stream donation platform with real-time TTS alerts (Express, WebSockets, Next.js) · Hardened game-server deployment kit with Lua gameplay modules (Bash, systemd, iptables, Docker, Cloudflare Tunnel) · Solana rent-reclaim dApp (Next.js, wallet adapter) · Cinematic scroll-driven marketing site (Next.js, GSAP, canvas)

PREVIOUS EXPERIENCE

Full Stack Developer · Blogfarm (Nov 2012 – Feb 2018) — E-commerce platforms in Java/PHP and AWS infrastructure.

Development Coordinator / Intern · Esporte Interativo (Aug 2009 – Oct 2012) — Web systems and cloud infrastructure.

EDUCATION

B.S. in Systems Analysis and Development · Centro Universitário da Cidade (2007 – 2011)