

KEVIN DANAE AGUILERA BARRAGAN

Senior Full Stack Software Engineer | Mobile (React Native) & Backend (Node / NestJS / Kotlin)

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PROFESSIONAL SUMMARY

Senior Full Stack Software Engineer with 4+ years building and scaling production-grade mobile, web, and backend systems for high-traffic consumer and e-commerce products. Expert in React Native (Expo), TypeScript, NestJS, Node.js, PostgreSQL/Supabase, and Kotlin (Jetpack Compose), with hands-on experience across DevSecOps, AWS (ECS Fargate, Bedrock, SES), serverless Edge Functions, and AI-powered features. Currently architecting a cross-platform streaming product end-to-end (mobile, admin web, microservices, edge functions, payments, A/B testing) while leading security automation initiatives at Mercado Libre, the largest e-commerce platform in Latin America.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES2023), Python, Kotlin, SQL (PostgreSQL/PL-pgSQL), Ruby, Bash

Frontend: React 19, React Native (Expo SDK 54), Expo Router, Redux Toolkit, Zustand, Refine.dev, Ant Design, Vite, TanStack Virtual

Mobile: React Native, Expo, EAS Build, Jetpack Compose, Hilt DI, Orbit MVI, Media3 ExoPlayer, Reanimated, FlashList, iOS / Android native modules

Backend: Node.js, NestJS 11, Hono, Deno 2, Express, Flask, REST APIs, microservices, Edge Functions

Databases: PostgreSQL 17, Supabase (RLS, RPCs, Edge Functions, Storage), Redis (BullMQ), Room, DataStore

Cloud & DevOps: AWS (ECS Fargate, Bedrock, Translate, SES, Scheduler), Supabase, Docker, GitHub Actions, EAS, Husky, Cloudflare, Vercel, CI/CD

Video & Payments: Mux Video, Mux Upchunk, ExoPlayer (HLS), RevenueCat (IAP), Stripe, Apple StoreKit, Google Play Billing

Analytics & Monitoring: PostHog, Firebase Crashlytics, Firebase Analytics, A/B testing, experiment exposure tracking

Security & Auth: DevSecOps, security automation, JWT/OAuth, HMAC-SHA256 webhook verification, Supabase Auth, Helmet, rate limiting, RLS policies

AI / ML: AWS Bedrock (LLM integration), AI-powered subtitle translation, Anthropic Claude API, prompt engineering, Claude Code agentic workflows

Testing: Jest, ts-jest, React Testing Library, unit + integration testing, Android benchmark suite

Architecture & Methodology: Clean Architecture, Controller–Service–Repository, MVI, event-driven design, Agile / Scrum, code reviews, mentoring

PROFESSIONAL EXPERIENCE

Idilio TV — *Streaming & video-on-demand startup* Remote (Mexico)

Full Stack Software Engineer (Mobile Lead) Dec 2025 – Present

- Architected and shipped a cross-platform streaming app (iOS & Android) in React Native + Expo SDK 54, scaling the codebase to 112+ components, 36 Redux Toolkit slices, and 23 custom hooks powering authentication, Mux-based video playback, recommendations, and a rewards system.
- Designed an end-to-end A/B testing platform with deterministic FNV-1a hash bucketing and JSONB targeting (country, region, language, subscription tier), enabling per-poster, per-show, and per-episode experimentation across 4 content entities with daily-deduplicated exposure tracking.
- Built a native Android companion app in Kotlin + Jetpack Compose with Hilt DI, Orbit MVI, and Media3 ExoPlayer (HLS), including a Macrobenchmark suite and production R8/Proguard minification with resource shrinking.
- Engineered a NestJS 11 admin API across 7 modules (video, subtitle, notifications, AI translation, pricing, in-app messaging, health) with Swagger docs, global Supabase JWT auth, Helmet headers, and 100 req/min throttling — backed by Jest unit tests.
- Built 11 production Supabase Edge Functions in Deno 2 + Hono using a Controller → Service → Repository pattern, with HMAC-SHA256 signature verification for RevenueCat and Mux webhooks (5-minute replay-protection window).
- Owned 223+ PostgreSQL migrations and PL/pgSQL RPCs implementing row-level security, country/region geofencing, soft-delete conventions, and unified content-variant evaluation across posters, shows, episodes, and demo reels.

- Integrated AWS Bedrock and AWS Translate to ship an AI-powered subtitle translation pipeline (SRT parsing, language normalization, post-edit selectors), eliminating manual translation cycles for new content.
- Delivered the React 19 + Vite admin dashboard on Refine.dev + Ant Design with 258+ components, resumable Mux Upchunk uploads, drag-and-drop video reel ordering (dnd-kit), and Zustand state — all wired to Supabase via auto-generated TypeScript types.
- Orchestrated push notification delivery via AWS ECS Fargate workers + Expo Server SDK, decoupling cron-based scheduling from delivery for horizontal scaling and reliable multi-platform fan-out (iOS APNs + Android FCM).
- Act as technical owner of the mobile + backend platform, leveraging Claude Code agentic workflows to ship features at startup velocity while maintaining production code quality (typing, linting, code reviews, observability via PostHog and Firebase Crashlytics).

Mercado Libre — *Largest e-commerce & fintech company in Latin America* Remote (Mexico)

Software Engineer · *Cybersecurity / DevSecOps* Apr 2022 – Present

- Build and operate security automation tooling and DevSecOps pipelines for an organization of hundreds of engineers, integrating static analysis, secret scanning, and policy-as-code into CI/CD workflows across the company.
- Develop internal services and platform tooling in Python and JavaScript to detect, triage, and remediate security findings at scale, reducing manual review effort and shortening time-to-remediation for high-severity issues.
- Partner with product, platform, and infrastructure teams to enforce secure-by-default patterns across microservices in production, including authentication, secret management, and dependency hardening.
- Contributed to full-stack product features (JavaScript / React / Node / Python) before transitioning to security engineering, maintaining dual-track expertise across product delivery and security.
- Operate inside a high-scale, polyglot environment (millions of daily users) — exposure to large monorepos, distributed systems, on-call rotations, and rigorous code review culture.

Truehome — *Leading proptech (real-estate marketplace) in Mexico* Mexico City (Hybrid)

Frontend Developer (React) Oct 2021 – Apr 2022

- Built and maintained React-based internal tools and back-office dashboards used by operations, agents, and sales teams to manage real-estate listings, leads, and transactions.
- Developed reusable UI components and integrated REST APIs to streamline day-to-day workflows for internal stakeholders, improving data entry speed and reducing operational friction.
- Collaborated cross-functionally with backend engineers, product managers, and designers under an Agile / Scrum cadence, translating business requirements into accessible, responsive web interfaces.
- Contributed to code quality through component-driven development, peer code reviews, and adoption of consistent patterns across the internal tools codebase.

SELECTED PROJECTS (OPEN SOURCE / PERSONAL)

- ai-docgen — Python tool that auto-generates technical documentation from source code using LLMs.
- oraculo_bot — Cryptocurrency sentiment analysis bot combining NLP and market signals to surface trading opportunities.
- trading_ai — AI-powered trading assistant exploring algorithmic strategies and prompt-based decision support.
- kevinaguilera.tech — Personal portfolio site showcasing recent work and writing.

EDUCATION

TECH Universidad Tecnológica Online | Expected 2028

Bachelor's Degree in Physics (in progress)

Henry Bootcamp Online | 2021

Full Stack Web Development — JavaScript, React, Node.js, PostgreSQL (intensive program, 4+ months)

CERTIFICATIONS & LANGUAGES

Certifications: Ruby on Rails (Udemy, 2024) · Microsoft Azure Fundamentals (Microsoft, 2021) · Scrum Fundamentals Certified / SFC (SCRUMstudy, 2021) · JavaScript Moderno (Udemy, 2021) · Introducción a Swift (Platzi, 2022)

Languages: Spanish (Native) · English (Professional Working Proficiency, B2)