

Hector Waldman

Senior Flutter & Dart Engineer · Fullstack Developer | Cross-platform mobile · React / TypeScript · Backend & AI integration

[Website](#) · hector@hectorwaldmann.site · [LinkedIn](#) · [GitHub](#) · +351-963490320 · +54-91173735643

Senior **Flutter/Dart** engineer with **6 years** shipping production cross-platform apps — and a cross-functional builder who also delivers **React / TypeScript / NextJS** real-time frontends, **Python / Node / Laravel** backend services and production **AI/ML integrations**. I design clean, maintainable architectures, set engineering standards, and own products end to end — from state management and APIs to App Store, Play Store and cloud release. Known for pragmatism and turning ambiguous requirements into shippable systems.

• EXPERIENCE

Flutter Architect & Senior Frontend Developer — **Keel Mind** JAN 2022 – JUL 2026

Remote · Toronto, Canada · Keel Digital Solutions group (product formerly Get A-Head Inc.) — multi-tenant mental-health platform

Same product, same team, no break in the work. Jan 2022 – Aug 2024 placed with the client as a consultant of **Band of Coders LLC** (Atlanta, GA — employer of record). **From Sep 2024: direct B2B contract with Keel Mind**, after Keel bought out my contract from the agency to engage me exclusively.

- Architected and built **km_fl_common_ui** from scratch — the company-wide Flutter design-system and shared-component library consumed by every Flutter app in the org — with an **override-ready color architecture** that enables rebranding and white-label theming — live at cacfgambling.support-mind.com.
- Led the data-layer modernization of org's main **production Flutter app**.
- Built the media-upload pipeline for files up to 1.5 GB on Flutter Web: bypassed the HTTP client for the browser's native **XHR/Blob API** and staged bytes through **IndexedDB (Hive)**, releasing the in-memory reference so the Dart heap never held the payload. Multi-file queue with per-file progress, cancellation unified across web and native, and virus-scan polling.
- Delivered the complete MVP of **Pressio**, a Keel Digital transcript-analysis product — React 19 · Vite · TypeScript · Tailwind front end (Vitest + Testing Library) over a Fastify · TypeScript service on AWS Bedrock, with OpenAPI docs and a Dockerised test suite. Handed over production-ready.
- Designed and shipped a reusable, **embeddable Flutter package** for voice-based self-assessment (BLoC/Cubit, get_it DI, conditional web/native imports) with cross-platform native audio capture (Web/iOS/Android) and a fully testable recorder-injection seam.
- Led **Flutter architecture** initiatives and set team-wide engineering standards — CI/CD, code review, best-practices & library documentation — and mentored 2+ developers.
- **Beyond Flutter** — architected the **real-time streaming voice pipeline** for a production **voice-AI agent in React 19 + TypeScript** — a from-scratch gapless Web Audio PCM playback scheduler and a fully typed WebSocket protocol with heartbeat keep-alive and exponential-backoff reconnect, Silero/ONNX voice-activity detection for barge-in, and a Vitest suite covering the audio and protocol layers. Shipped as GuardianAI — packaged as an embeddable SDK with separate React and drop-in embed entry points — backed by a Fastify WebSocket service on AWS Bedrock Agent Runtime with Redis session state. Live in the National Peer Support Network platform (app.npsn.org).
- Integrated production **AI/ML** end to end — real-time voice-activity detection and barge-in for a conversational voice agent, a voice-biomarker scoring pipeline across Flutter/Python/Node, and an NLP service that auto-generates clinical notes from therapy transcripts.
- Collaborate to maintain Python (FastAPI, Dash) and Node/TypeScript microservices; owned **CI/CD**, built a **multi-tenant white-label** branding system.

Flutter Developer — **Band of Coders LLC** FEB 2021 – JAN 2022

Remote · Atlanta, Georgia, USA · software agency

- Flutter delivery for US agency clients. In Jan 2022 I was placed full-time with the client Get A-Head Inc. (now Keel Mind) — the engagement that ran until Aug 2024, when Keel bought out the contract.
- Built GoTribe Fitness from scratch for an agency client — Flutter + BLoC on a GraphQL backend, with multi-device BLE connectivity for real-time heart-rate and training metrics, plus deep native-platform integrations. Live on the App Store and Google Play.

Flutter Developer — **Native App** JUL 2020 – JAN 2021

Remote · Bogotá, Colombia

- Built the reusable widget library behind Native.App's no-code app builder — my first design system, and the direct antecedent of **km_fl_common_ui** at Keel. Also shipped responsive Web, PWA, iOS and Android modules with advanced BLoC patterns, Firestore integrations and Cloud Functions; delivered the front-end for universodecreadores.com.

• FLAGSHIP PRODUCT

Foodly World **FOUNDER · LEAD ENGINEER** INDEPENDENT PRODUCT · JAN 2024 — PRESENT

A cross-platform food marketplace — Flutter app (iOS · Android · Web) on a self-built backend. Live in beta. Built on evenings and weekends alongside my Keel engagement; sole full-stack owner since 2025.

- Full-stack owner: Flutter app (BLoC/Cubit, GoRouter, GetIt) plus a **Laravel / PostgreSQL API on GCP Cloud Run**, with dual-token Sanctum auth (rotation + biometric login) and GDPR / Ley 25.326-compliant account deletion.
- Built **geospatial business discovery** (Haversine + SQL bounding-box pre-filtering, composite coordinate index) and a Places/Geocoding proxy with Postgres caching that cut Google API calls **60–80%**.
- Built a **menu-digitization service** that turns photographed restaurant menus into structured, editable digital menus, published as public web menus (menu.foodly.solutions) on Firebase Hosting.
- Took over the full stack in 2025 — inherited a Laravel backend that was not production-ready and hardened it end to end: GCP infrastructure, custom services, third-party API optimization, major security remediation, Cloudflare, Firebase Analytics, SMS two-factor auth with autofill and push notifications. Currently building a multi-payer order-payment platform on Stripe.
- Shipped end-to-end features — reservations, a Catering & Chefs module, an **AI promo-content generator** with per-business quotas, multilingual NLP **smart-search** and UGC moderation — plus a multi-region payment layer (Stripe · MercadoPago · Binance Pay/USDT) *in development*.
- Operates the release pipeline: **OTA hot-patching (Shorebird)**, GitHub Actions, App Store Connect/TestFlight, Google Play and EU DSA compliance.

Download: [iOS](#) · [Android](#) · [foodly.solutions](#)

• AI-AUGMENTED DEVELOPMENT

I work as an **AI-augmented engineer**: I use AI coding assistants (Claude agents) daily as a force multiplier for scaffolding, refactoring, debugging, test generation and fast ramp-up on new stacks — while **architecture, code review and final validation stay under my own judgment**. Several production features on Foodly's Laravel backend and Keel's React frontend were built this way. Distinct from the **AI/ML I integrate into products** (above) — LLMs, NLP and voice agents shipped for end users.

• TECHNICAL SKILLS

Flutter Flutter · Dart · go_router · Freezed→Equatable · Retrofit/Dio · Hive · Material 3 · responsive & adaptive UI · custom animations · platform channels · Custom Painter

State Management BLoC · Cubit · Provider · Riverpod · GetIt (DI) · Clean Architecture · MVVM · Repository pattern

Languages Dart (expert) · TypeScript / JavaScript · Python · PHP · SQL

React & Web React 19 · Next.js · Web Audio API · WebSocket · Tailwind · Vite

AI / ML integration Voice-AI agents · VAD (Silero / ONNX) · LLM integration (Llama 3.1 via SageMaker) · LangChain · transformers / NLP · biomarker scoring

AI-assisted workflow Claude · GitHub Copilot · AI pair-programming · prompt engineering · AI-assisted code review & testing

Backend Laravel · FastAPI · Node / Express · REST · GraphQL · PostgreSQL · geospatial / Haversine · Firebase / Firestore

Cloud & DevOps GCP (Cloud Run · Cloud SQL · GCS) · Firebase Hosting · AWS (SageMaker · S3) · Docker · GitHub Actions · Vercel · Shorebird · Fastlane

Testing & Quality Vitest · bloc_test · mocktail · unit / integration testing · CVE remediation · multi-tenant white-label · i18n · CI/CD

• LANGUAGES

Spanish — Native **English** — Advanced (C1) **Portuguese** — Intermediate