

Arnau Lopez Selles

Software Engineer · Backend | Alcoy, Spain — open to relocation within the EU

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SUMMARY

Backend-leaning software engineer, 22. I ship products by solving the problem first: what must not be faked, then the build. Technical cofounder of Aithority (EU AI Act; company in Lanzadera, Spain): I own backend, integrations and classification logic; sales stay with the commercial cofounder. F1 Strategy Agent: real FastF1 telemetry, a RandomForest model evaluated on a race it never trained on, extended into a tested SQL data pipeline. Founder of Kiblo (pet-food iOS, App Store review US & Canada). Dross notarized Mac. AI in loops (conditions, then rebuild what failed) — not one long prompt. TypeScript, Node, SQL, Next.js, React Native, SwiftUI.

SELECTED PRODUCTS — PROBLEMS SOLVED

Authority — EU AI Act compliance SaaS

Technical cofounder | Next.js, Node, Turso, Claude Haiku, Microsoft 365 / Google / OpenAI-Anthropic admin APIs | Company in Lanzadera · first client

- Time-to-value was over 7 minutes. Three-step onboarding: connect M365, Google Workspace or an Anthropic/OpenAI admin key → auto-create the AI system → Haiku suggests a class, a human confirms → dashboard.
- UI is intentional: large popup, editorial-minimal. Product exports a PDF the customer can send so the SaaS is not only a classifier.
- Departments vanished on reload: Render's filesystem is wiped on cold start/redeploy. Moved the database to Turso instead of paying a higher Render tier. Sales: commercial cofounder.

F1 Strategy Agent — ML race strategy, open source

Founder | Python, FastF1 API, scikit-learn, SQL/SQLite | Open source · github.com/lopezsellesarnau-cmd/F1-Strategy-Agent

- A naive model failed across circuits (MAE 3.49s): raw lap time confuses "different circuit" with "tyre wear." Predicting the delta over each circuit's own baseline dropped the error to 0.73s.
- Trained on two real 2023 Grands Prix, evaluated on a third the model never saw — a genuine generalization check, not the same race scored twice.
- Open-sourced because viewers asked for the code; later extended into a companion SQL pipeline (staging → marts, 5 data-quality checks, CI).

Kiblo — Pet-food iOS (scan, portions, plan, reorder)

Founder · Expo, React Native, Firebase, RevenueCat | App Store review US & Canada (not live)

- Rejected an LLM call for every feeding tip; built a deterministic engine instead (wrong health advice is worse than a missing tip).
- Home was noisy: homepage is a clean bowl; tips, details and extras live on the bowl's detail screen.
- Plan meals are existing US dog recipes the user picks — not LLM-generated meals. Daily grams from the vet RER formula (age, weight, activity, meals/day).
- RevenueCat said credentials were valid but would not connect: In-App Purchase key was correct; the App Bundle ID was not an exact match.

Dross — macOS + CLI, contract drift

Solo | SwiftUI, TypeScript compiler API | Live — notarized DMG · github.com/lopezsellesarnau-cmd/dross

- Problem: client and server silently disagree. Compiler API, not regex. Golden corpus at 100% precision and recall or CI fails.

BlockFlow — Voice AI for UK property

Solo | Next.js, voice AI, LLM | In production — no paying customers, not selling

- Conversation to structured ticket; happy path with no human. Unlike Kiblo, I am not distributing this now.

EXPERIENCE

Deutsche Post (DHL Group) — Logistics and operations

Paderborn, Germany | Aug 2024–Apr 2026 (~2 years)

- Lived and worked in Germany. Based in Spain now, open to English-speaking backend/software engineer roles in NL / DE; German is A2.

ALSO SHIPPED

TRACE (privacy iOS, live App Store US). SMASH (padel iOS, App Store). Louvr Labs. Volea (Stripe Connect). ai-act-eval (open source). Short-form build content on most of the above.

HOW I USE AI

Loop engineering with AI: each pass has conditions; if they fail I inspect why and rebuild. I lock product and visual constraints; the model does not own the ship.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Swift, Dart.

Backend / data: Node, Express, SQLite/Turso, Firebase, Vercel, Render.

Product / UI: design systems, Figma to code, React, React Native, Expo, Next.js, SwiftUI, Flutter.

Spanish (native), Catalan (native), English (professional), German (A2).

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