Yassine Ennaim

Agentic AI Engineer (Mastra, TypeScript) · Mobile and Full-Stack Engineer

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Moroccan national, based in Morocco, currently working remotely from Southeast Asia (UTC+7) · Available to relocate to Riyadh or Jeddah within 8 weeks, or remote

PROFILE

Software engineer with 10+ years of delivery who builds and operates AI agents in production. Specialist in **Mastra**, the TypeScript agent framework: agents with tools and memory, deterministic workflows with retries and suspend/resume, scheduled runs, output processors, tracing and token cost control that fails closed. Runs an autonomous marketing team for his own live iOS app, with Slack human approval on every publish and a metered cost of about one cent per daily content pack. Before agents: 21 client applications shipped to the App Store and Play Store, Top Rated Plus on Upwork with a 100% Job Success Score. Native Arabic, fluent French, professional English.

21 apps shipped | **100%** Job Success, Top Rated Plus | **~170** automated tests on the agent platform | **~$0.01** per daily 9-platform content pack

CORE SKILLS

AI agents	Mastra (agents, tools, workflows, memory, processors, scorers, Studio), Vercel AI SDK, OpenAI API, Gemini API, MCP, structured output with Zod, RAG, prompt and context engineering, evals, human in the loop approval, observability and tracing, token cost control
Languages	TypeScript, Node.js, JavaScript, SQL, Dart; Python as a working language; PHP earlier
Backend and data	Supabase (Postgres, RLS, edge functions), NestJS, Next.js, Firebase and Cloud Functions, PostgreSQL, Redis, LibSQL, DuckDB, REST and GraphQL, Docker, Google Cloud Platform
Mobile	React Native and Expo (EAS), Flutter, FlutterFlow, App Store and Play Store releases, RevenueCat, push notifications, offline sync
Integrations and ops	Slack Bolt and Block Kit, Telegram Bot API, Stripe Connect, Xendit, Tavily, Sentry, PostHog, GitHub, CI, vitest

EXPERIENCE

Founder and Lead Engineer, Fouz (formerly Fozup)

Jul 2021 to present · Remote

Gamified sports app, live on the App Store since 29 Aug 2026 (Expo, Supabase, RevenueCat, PostHog, Sentry)

- Built and operate an autonomous marketing team on Mastra: specialist agents (research analyst, content writer, condenser) and deterministic workflows that produce a daily content pack for nine platforms at 06:00, lint it against a brand voice file, and post approval cards into Slack. Nothing publishes until a human presses Approve.
- Engineered the platform layer: composite LibSQL and DuckDB storage, observability exporters, retries and onError on every workflow, budget gates, per resource token cost control that fails closed, SimpleAuth, structured logging with secret redaction, retention and prune workflow. About 170 vitest tests.
- Publishing rails for Telegram, X and LinkedIn behind requireApproval tools; first automated posts went live on 8 Sep 2026. Model routing through the AI SDK with OpenAI primary and Gemini fallback, chosen by one policy file.
- Shipped the Fouz app end to end: 55 sports, XP, streaks, leaderboards, share cards, referral flow, anti cheat rules in Postgres, push notifications, App Store review passed after a documented resubmission.
- Earlier designed the NestJS microservices backend (Fozup): real time geolocation search, leaderboards and subscriptions on GCP, Redis and PostgreSQL.

AI and Mobile Engineer, Freelance (Upwork, Top Rated Plus) Aug 2019 to present · Remote

21 client applications shipped to the App Store and Play Store, 100% Job Success Score, clients in the US, UK, EU, UAE and Southeast Asia

- **Rinkly**, skating rink booking: Stripe Connect payouts, real time availability, digital waivers, QR ticketing (FlutterFlow, Flutter, Firebase, Cloud Functions).
- **Flipaki**, peer to peer rental marketplace: inventory, encrypted chat, deposits, shop accounts (FlutterFlow, Firebase, GCP). **CourtFinder**, dual app court booking with Xendit payments. **NurseRates**, privacy first hospital rating app (Supabase).
- AI inside the app: **Meal**, OpenAI pantry scanning and inventory; **7akai**, Gemini generated storybooks with images and narration (TypeScript Cloud Functions); **Taouk**, restaurant platform with POS integration and AI agents.
- Web: **The Unique Piece** vintage furniture marketplace with escrow flow (Next.js, Supabase); **Divergence Academy** student portal and LMS.

Senior Full-Stack Developer, Casapplanca Jun 2020 to Jul 2021 · Casablanca

- Built Kapptain.com, a serverless marketplace for photography services with real time booking and payments (Firebase, Node.js, GCP).
- Built the M2M mentorship platform on NestJS microservices, PostgreSQL, Redis and React; delivered early AI and ML prototypes for data heavy client apps.

Full-Stack Web Developer, Abweb Digital Agency Mar 2015 to Aug 2019 · Casablanca

- Built and maintained the Forbes Middle East website and its custom CMS: magazine management, subscriptions, mobile first front end, high traffic across MENA (Laravel, React, PostgreSQL).
- Delivered long running B2B platforms and a real estate marketplace serving thousands of concurrent users.

SELECTED AI WORK IN DETAIL

- **Daily content workflow (Mastra):** typed steps with Zod schemas, foreach over platforms, deterministic lint step, budget gate before every model call, Slack card per item with Approve, Skip and Edit, revise workflow triggered by the Edit button, weekly prune workflow, declarative schedule in Asia/Dubai time.
- **Cost and safety:** DuckDB metrics per run, per resource TokenCostControl with a monthly ceiling, blocking regex output processor for brand voice, logger redaction of tokens, no Anthropic key at runtime by policy.
- **Image generation lane (in progress):** canon prompt assembler with a drift test against the visual identity file, OpenAI gpt-image-2 edits from a locked reference sheet, cost measured per call.

EDUCATION

Diploma of Advanced Technician (Technicien Spécialisé), Computer Science

ISTA NTIC Safi, 2011 to 2014

Digital Jobs for Moroccan Youth, Computer Science

EFE Maroc, 2015

Baccalauréat, Mathematical Sciences

Lycée Salah Eddine Al Ayoubi, Safi

CERTIFICATIONS AND LANGUAGES

Build Your First Agent in TypeScript, Mastra, 2026

Google AI (Gemini), Google, Mar 2026

Arabic native (Moroccan, reads and writes MSA) · **French** fluent · **English** professional working proficiency