

Efe Genc

Full-Stack Product Engineer — web, mobile, backend and the AI product layer

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SUMMARY

Product engineer who builds production software end to end in companies that are still working out what they are building. Four years in software engineering (since January 2022) after earlier IT and field-operations work. One of two founding engineers at Cendra, a Revo Capital-backed AI platform for hospitality operations, where I was primary author of the web application and sole author of both mobile apps; founder and sole author of LILA, a proactive AI assistant; three fixes merged by maintainers of two open-source AI projects (LangChain's openwiki, Mastra). I take underspecified problems from product definition and architecture through implementation, rollout and production verification, and I state how every figure below was measured.

EXPERIENCE

Founder & sole author — LILA, proactive AI assistant (independent) Feb 2026 – present

- Designed and built the whole system: React Native client, Node/TypeScript application service owning decisions and state, stateless Python/FastAPI inference service, Next.js site on Cloudflare Workers — 9,500+ commits, single author, in a pnpm/Turbo monorepo (self-counted, Sep 2026).
- Built an agentic signal pipeline (ingestion, normalisation, correlation, detection across email, calendar and workspace) separated from a twelve-check delivery gate that decides whether, when and to whom the assistant speaks; every rejection is reason-coded and logged.
- Five-layer context assembly (session, conversation, episodic memory, knowledge graph, RAG) under a deterministic token budget with cache-stable prompt prefixes; episodic memory with entity resolution, promotion and reactivation; shadow-mode RAG rollout.
- Multi-provider model gateway with routing, fallback chains, per-provider circuit breakers, cost tracking and observability; evaluation harness in CI scoring accuracy, calibration, evidence, product truth and *silence* — whether the assistant was right not to intervene.
- Status: store-ready in sixteen languages — public site in closed beta at hellolila.app, a 1.0 prepared in App Store Connect and a Google Play internal track, priced in 171 regions — with the release deliberately held until the proactive engine meets its own bar. Architecture, evidence and a code walkthrough are available to reviewers on request.

Founding Engineer — Cendra (Botel AI Inc.), San Francisco & London Aug 2025 – Jul 2026

AI platform automating guest communication and property operations for short-term rental operators. One of two founding engineers, named as such in the company's \$1M seed announcement (led by Revo Capital, February 2026).

- Primary author of the production web application: rebuilt the early codebase into 27 product areas and a 93-component design system across 13 locales including full Arabic right-to-left — 84.7% of surviving frontend code by sampled `git blame -w -M`, 80.7% of tenure-scoped production commits.
- Sole author of the iOS and Android applications (every commit to both projects): Capacitor shells, Firebase push, Capgo over-the-air updates, App Store and Google Play releases. No separate mobile team existed.
- Built the product layer around the company's AI — Agent Hub, knowledge base, agentic rule authoring, in-product Copilot — and the transport beneath it (AG-UI, CopilotKit, SSE, SignalR), integrating the LangGraph agent services and RAG pipelines owned by the founding AI engineer.
- Owned the notification and real-time system end to end (.NET, SignalR hub, web, mobile): classification, preference gating, deduplication, rate limiting and collapse keys removed an estimated ~19,000 unnecessary push notifications per day, extrapolated from a production telemetry sample.
- Substantial backend contributor after joining the .NET codebase six months in: 23.2% of surviving code by sampled blame; principal author of the backend test suite.
- Ran the path to production as the contributor base widened: 377 production releases across four repositories, 255 design specifications, 207 implementation plans and 17 runbooks (self-counted).

Founding Engineer (part-time, equity) — ReadyFly, London-registered Jun 2025 – Jun 2026

Maya, an AI career agent: candidates don't apply, they receive interview invites.

- Made the first commit to the web application and authored roughly three quarters of it (157 of 209 commits): Next.js/TypeScript surfaces for candidates, recruiters, companies and administrators.
- Built Maya's candidate experience (conversational onboarding, job-pitch review) and the live dual-agent landing at readyfly.io; enforced GDPR/ePrivacy consent technically without a paid consent platform.
- Built the in-browser live-interview surface of the earlier MVP: LiveKit/WebRTC video, embedded Monaco editor and proctoring in one session. Contributed to the FastAPI API, including the split of CV ingestion, authentication and profile services. Matching intelligence was the team's AI engineer's.

Founding Senior Software Engineer — Devin Tech, USA (remote) Apr 2024 – Mar 2025

- Built a global B2B/B2C wholesale commerce platform from scratch: Next.js/React frontend; .NET (onion architecture), PostgreSQL, EF Core backend; IdentityServer/JWT/OAuth 2.0; SignalR, WebSockets, SSE, Redis and Hangfire for real-time and background work. Cut API latency by ~45% through caching and query optimisation.

Software Developer — Limak Technology, Ankara Oct 2022 – Apr 2024

- Fullstack developer on a team carrying five to six concurrent products (vehicle management, task management, a real-estate platform and sub-projects): React/Next.js (incl. PWA) frontends, .NET Core clean-architecture services, Google and third-party integrations, Azure deployment, kanban/scrumban with per-sprint performance scoring.

Data Scientist (volunteer, alongside full-time roles) — Interno / Interfarm, TÜBİTAK 1501-funded R&D project no. 3220859

Oct 2022 – Dec 2024

- Named in the funded proposal as the project's Data Scientist — the only person listed against its AI and machine-learning work — for an AI-supported software and automation system for indoor vertical farming (the company reports the proposal ranked first of ~300 in its call; company-reported, not verified by me).
- Developed the Python fuzzy-logic control layer (membership functions, inference rules, actuator outputs) deciding climate, nutrient and lighting behaviour from sensor data (temperature, humidity, CO₂, pH, EC, levels); built the browser-based HTML5 operator application; integrated with Raspberry Pi units over MQTT/HTTP.

Software Developer, earlier IT Analyst — Milapasa Technology, Ankara

Mar 2021 – Oct 2022

- IT within WEGlobal's infrastructure through Milapasa's strategic partnership — help-desk to field support; kept programme data consistent and reported it through PowerBI across EU-funded programmes; administered and supported the M&E portals used by internationally funded programmes; built an internal e-learning portal and tooling.
- Designed the landing page for Actio, Milapasa's event-management product (the application was built by the development team), and moderated its live events in the field.

Software Database Developer (internship) — GCA Technology Services, Ankara

Jun – Nov 2018

- Development on the Ministry of Health's Core Resource Management System (ÇKYS); university-hospital SQL/Oracle PL/SQL database set-up projects.

OPEN-SOURCE CONTRIBUTIONS (REVIEWED AND MERGED BY MAINTAINERS WHO OWE ME NOTHING)

- **langchain-ai/openwiki #635** — bundled skills failed to sync from read-only installations. Merged 12 Aug 2026, released in v0.3.3 with a named changelog credit. **#703** — onboarding tests wrote into the developer's real config directory on Windows. Merged 24 Aug 2026.
- **mastra-ai/mastra #22903** — runEvals gate loops violated the trajectory-scorer contract and swallowed the failure as a silent score of 0. Approved and merged 2 Sep 2026 by a mastra-ai organisation member; shipped in @mastra/core@1.64.0. All three carried red→green regression tests; the reviewer reproduced the regression check independently.

INDEPENDENT PROJECT

Archive Engineering — autonomous documentary pipeline (sole author)

May 2026 – present

- 13-stage pipeline turning US public-domain archive material into original documentary video: default-deny rights/provenance ledger, SHA-256 asset verification, exact and embedding-based deduplication; thin n8n orchestration over a Python/FastAPI runner with Ollama, Kokoro TTS, Whisper, Manim and FFmpeg. Every stage timed and documented; 25 design specs.

SPEAKING & WRITING

- Speaker, Dokuz Eylül University 6th Summer Training Camp (hosted with TMMOB Chamber of Computer Engineers), September 2026 — software engineering in the AI era.
- Eleven public technical essays on efe-genc-portfolio.vercel.app/writing (spec-driven delivery, evaluating restraint in proactive assistants, showing ownership of private repositories, surviving AI providers), plus an evidence page where every figure carries its scope and method.

EDUCATION & CREDENTIALS

2020 – 2022	MSc Data Analytics (Machine Learning) , Altınbaş University — GPA 3.92/4; capstone project with WEGlobal.
2015 – 2019	BSc Computer Engineering , Okan University.
2020	English programme, Cambridge EF International Language School, UK (Mar – Jun 2020).
Credentials	PTE Academic (Mar 2026, valid to Mar 2028) · Member, TMMOB Chamber of Computer Engineers (no. 7916, since Jan 2024) · MiniClimate certificate, Ministry of Environment and Urbanisation.
Languages	Turkish (native) · English (B2, professional working proficiency in engineering environments).

SKILLS

Frontend	React, TypeScript, Next.js, Vite, Redux Toolkit/RTK Query, Radix UI, shadcn/ui, Tailwind, TanStack Table/Virtual, React Hook Form, Zod, i18next/ICU localisation (RTL)
Backend	C#/.NET Core (clean/onion architecture, CQRS, EF Core), Python/FastAPI, Node/TypeScript, REST, PostgreSQL, MySQL, MongoDB, Redis
Mobile	Capacitor (iOS/Android), React Native, Firebase Cloud Messaging, Capgo OTA, App Store Connect, Google Play Console
Real-time	SignalR, WebSockets, SSE, WebRTC/LiveKit, push fan-out, deduplication and rate limiting
AI product systems	LLM gateways and routing, fallback/circuit breaking, prompt caching, RAG and memory, LangGraph service integration, CopilotKit/AG-UI, LLM-as-judge evaluation harnesses
Delivery & operations	Specification-driven development, automated testing (Vitest, Testing Library, Playwright, pytest), GitHub Actions, Azure Pipelines, Docker, Kubernetes, Nginx, Grafana/Loki, Sentry, PostHog; staged rollout, rollback, incident response

Figures marked "estimated", "sampled" or "self-counted" were measured by me with the stated method; company outcomes are labelled as such and are not presented as personal results. Updated September 2026.