

# Halil Ertekin

Senior Full Stack Developer · EU Citizen · AI Integration & DevOps

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## Summary

Senior Full Stack Developer with **10+ years** of experience shipping production web, mobile, and cloud architectures end-to-end across Belgium and Europe.

Founder & sole proprietor of **2Run** — Belgian AI-first software engineering company (KBO/BCE **BE1038.480.317**, NACE 62.100/62.200, VAT + Peppol registered). Operates the **2run.be** ecosystem of **12+ products**.

Senior Full Stack Developer at **Probex** (since Jan 2026) — architecting **ImmoStory.ai**, **Tamam.be**, and the enterprise platform.

Strong expertise in **TypeScript, Next.js, Node.js/NestJS, Python, React Native/Expo, PostgreSQL, Docker, Kubernetes, Linux** deep **AI integration** (Gemini Live API, Claude Agent SDK, GPT-4V, ElevenLabs, Remotion).

EU citizen, based in Mol, Belgium; English (Professional B2/C1), Dutch (Professional B1/B2 · NT2 Flanders), Turkish (Native).

Open-source maintainer: **555+ repos, 2.5k+ stars, 89 followers, 22k+ contributions/year** Arctic Code Vault Contributor · Pull Shark ×4 · Pair Extraordinaire ×3.

## Experience

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>2Run</b> , Founder · Sole Proprietor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mol, Belgium                           |
| <ul style="list-style-type: none"><li>Sole proprietor / eenmanszaak — Belgian AI-first product studio (KBO/BCE <b>BE1038.480.317</b>, NACE 62.100/62.200, VAT + Peppol registered since 16 Jun 2026).</li><li>Launched the <b>2run.be</b> portfolio platform; operates <b>12+ in-house products</b> end-to-end (mobile + web + backend + DevOps) — Tolky, ERLiK, Mergen MD, Atelier Idil, HaloApp, Mamapapa, Glowniq, Kinderverhaal, Qnack, Paratura, Vetaverse and Silayolu — plus client e-commerce &amp; web builds.</li></ul>                                                                                                                                                          | June 2026 – present<br>4 months        |
| <b>Probex</b> , Senior Full Stack Developer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Belgium                                |
| <ul style="list-style-type: none"><li>Built <b>ImmoStory.ai</b> (AI real-estate video generator) and <b>Tamam.be</b> (Belgian task/help marketplace + utility suite) as the sole technical developer.</li><li>Lead full-stack development of the <b>Probex.immostory.one</b> admin panel: pipeline tracing, payment ops, newsletter warm-up, Peppol e-invoicing.</li><li>Stack: <b>Next.js 16, React 19, Tailwind CSS 4, NestJS 11, Drizzle ORM, PostgreSQL, Redis</b>, JWT + <b>2FA TOTP</b> i18n EN/NL/FR/DE/TR.</li><li>Deep AI integration with <b>OpenAI GPT-4V, Anthropic Claude, ElevenLabs, KIE.ai, fal.ai</b> bank-grade payments (Mollie, Stripe, iyzico, RevenueCat).</li></ul> | Jan 2026 – present<br>9 months         |
| <b>Demaz</b> , Senior Full Stack Developer · Contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Antwerpen, Belgium                     |
| <ul style="list-style-type: none"><li>Developed full-stack web, mobile, and AI-driven applications for internal tools and customer-facing platforms.</li><li>Implemented backend services with <b>.NET, NestJS (TypeScript)</b> and <b>FastAPI</b> managed MongoDB and MSSQL data solutions.</li><li>Containerised and deployed applications with <b>Docker</b> built CI/CD pipelines on <b>GitHub Actions</b> — 40% faster release cycles.</li><li>Led strategic <b>Azure → Hetzner</b> cloud migration — <b>80% reduction in operational costs</b> with improved performance.</li></ul>                                                                                                  | Jan 2024 – Mar 2025<br>1 year 3 months |
| <b>Self-directed</b> , Relocation · Continuous Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mol, Belgium                           |
| <ul style="list-style-type: none"><li>Relocated within Belgium and consolidated AI integration expertise across <b>OpenAI GPT-4V, Anthropic Claude, ElevenLabs, KIE.ai, fal.ai, Langchain</b>, vector databases.</li><li>Prepared the legal/operational foundation for <b>2Run</b> as a Belgian sole proprietorship (eenmanszaak) — VAT + Peppol registration, KBO/BCE onboarding.</li></ul>                                                                                                                                                                                                                                                                                               | Apr 2025 – Dec 2025<br>9 months        |

**Barney Pet Market**, Co-Founder

- Co-founded an online pet marketplace; led full-stack development from concept to scale.
- Built e-commerce platform, supplier integrations and customer-facing web/mobile experiences.
- Stack: **React**, **Node.js**, **MongoDB**, **AWS** mobile (React Native).

İzmir, Türkiye · Remote  
Nov 2020 – Sept 2024  
3 years 11 months

**Winfakt**, Full Stack Developer

- Contributed to an online invoicing system, enhancing functionality and user experience for clients.
- Built invoicing features with **Nuxt.js**, **Vue.js**, **PostgreSQL** and **Docker** improved system performance.
- Collaborated in an Agile team using Git, Trello and Slack.

Mol, Belgium  
Nov 2019 – Mar 2020  
5 months

**Aziz Sancar Ortaokulu**, IT Support Technician

- Provided IT support and infrastructure maintenance for school staff and students (full-time, 11 months).
- Managed network, hardware and software installations; day-to-day troubleshooting and end-user support.
- Hands-on exposure to **Windows/Linux administration**, **networking** and **end-user support**.

İzmir, Türkiye  
Sept 2015 – July 2016  
11 months

**Kuresel Online (Küresel Grup Bilişim Ltd. Şti.)**, Software Developer

- Developed an online learning and student platform, enhancing user engagement and educational content delivery.
- Built business software to streamline contract and administration management between customers and the company.
- Stack: **MeteorJS**, **Node.js**, **MongoDB**, Git, Trello, **Amazon AWS**.

Bursa, Türkiye  
June 2015 – Sept 2015  
4 months

**Atanova co**, Software Developer

- Restructured and optimised multiple projects; led testing phase for restructured projects ensuring quality and stability.
- Contributed to a real-time auction platform with **gamification** features, enhancing user interaction and engagement.
- Stack: **MeteorJS**, **Node.js**, **MongoDB**, **Firebase**, **Redis**, Git, Trello, AWS.

İzmir, Türkiye  
May 2014 – June 2015  
1 year 2 months

## Selected Projects

**ERLİK**

Native macOS activity & focus intelligence suite for Apple Silicon — ~8 MB RAM, open source.

- Pure Swift / ARM64: hardware-level idle detection, AI-agent telemetry (Claude Code, Cursor, Antigravity), local-only SQLite storage.
- Distributed via **Homebrew** (`brew install erlik`) and **npm** (`npm i -g erlik`); ActivityWatch-compatible JSON export.
- Status-bar companion: live focus time, RAM usage, one-click cache cleaning.

erlik.be · Open Source  
2026

**Mergen MD**

Markdown-first notes app for thinkers & developers — true local .md files, zero vendor lock-in.

- CodeMirror 6 engine with sub-100 ms startup; `[[wiki-links]]`, tag navigation, Vim bindings.
- Local-first privacy: encrypted storage + iCloud sync; Expo / React Native mobile app.

mergenmd.be · Belgium  
2026

**Atelier Idil**

Boutique e-commerce for organic & handmade baby and children's products.

- Monorepo: Next.js 15 (NL/FR/EN i18n, WER-compliant) + Expo mobile + NestJS API; Prisma ORM & PostgreSQL.
- EU/Belgium compliance: GDPR Art. 17/20 workflows, 14-day withdrawal, brand due diligence (BOIP/EUIPO).

idil.be · Belgium  
2026

**HaloApp.be**

haloapp.be · Belgium

Mobile business workspace for VoIP, SMS, WhatsApp and PBX team connectivity.

2025

- Expo / React Native with full push pipeline; WebRTC calling and team extensions.
- Stack: Expo, WebRTC, Asterisk / Twilio integration.

**Silayolu**

silayolu · TR / EU

Cross-border community &amp; travel platform with real-time geospatial updates.

2025

- Expo / React Native app with complete push notification pipeline (token registration + consent + campaigns).

**ImmoStory.ai**

immostory.ai · Belgium / NL /

AI real-estate video generator (URL → cinematic MP4 in minutes).

TR

2026

- GPT-4V shot selection · ElevenLabs narration · Remotion render · Drizzle/PostgreSQL pipeline trace.
- Multi-locale: TR / EN / NL / FR / DE; production pipeline on Hetzner Cloud with self-hosted CI.
- Stack: Next.js 16, NestJS 11, PostgreSQL (Drizzle), Redis, Socket.io, Remotion, OpenAI, ElevenLabs.

**Tolky**

tolky.be · Belgium / EU

Real-time browser-based speech translation (Gemini 3.5 Live) for high-stakes multilingual moments.

2026

- Translates NL · FR · EN · TR · DE · ES in real time; audible output + live transcript; no install needed.
- B2B platform with per-seat billing, GDPR-compliant DPA, custom glossaries, usage reporting.
- Stack: Next.js, Web Audio API, WebSockets, Gemini 3.5 Live, EU-hosted.

**Kinderverhaal.be**

kinderverhaal.be · TR / EN /

AI-powered personalised children's story app with ElevenLabs TTS.

NL

2026

- iOS TestFlight + Android + Web; 7+ characters, 11+ fantasy worlds, parent-controlled content.
- Stack: Next.js, NestJS, PostgreSQL, Expo / React Native, Stripe (RevenueCat), Sentry, Cloudflare.

**Fenix AI**

mail.2run.be/admin · Bel-

Self-hosted AI agent platform and workflow orchestrator for teams.

gium

2026

- Langchain agent runtime · Redis state · NestJS API · Next.js admin UI.
- Self-hosted AI workflows for team automation; EU-hosted; SSO + RBAC.

**Glowniq**

glowniq.be · Belgium

AI skincare companion — selfie → personalised skin scores + AM/PM routine.

2026

- iOS TestFlight + Android + Web (Expo + React Query + Firebase); free + credit-based premium plans.
- Selfie → skin scores; AM/PM routine recommendations; subscription + credit-based monetisation.

**Mamapapa**

mamapapa.be · Belgium

Bilingual pregnancy and parenting app for Belgian families — shared tracking, community, AI parenting assistant.

2026

- Stack: Next.js, Stripe, PostgreSQL.
- Bilingual NL/FR content; AI parenting assistant; community forums; shared tracking.

### Tamam.be · Utility toolkit

tamam.be · Belgium  
2026

Belgian task/help marketplace + utility suite (corporate data scrap, lead-gen automation, custom proxy rotation).

- Marketplace: Next.js, NestJS, PostgreSQL, BullMQ; iyzico + Stripe RC; KVKK + GDPR compliant.
- Utility toolkit: Python + Playwright + Redis; corporate data scrapers, lead-gen automation; deployed on Hetzner Cloud.

### Probex.immostory.one

probex.immostory.one/ad-  
min  
2026

Back-office dashboard for ImmoStory.ai — pipeline tracing, payment ops, newsletter warm-up, Peppol e-invoicing.

- Stack: Next.js 16, React 19, Tailwind 4, NestJS 11, Drizzle ORM, PostgreSQL, Redis, JWT + 2FA TOTP, i18n EN/NL/FR/DE/TR.

### 2Run platform

2run.be  
2025

3D-gamified portfolio monorepo (web + backend + mobile).

- Web: Next.js 16 + Three.js + GSAP + Tailwind 4. Backend: NestJS + MongoDB + Redis + Socket.io. Mobile: Expo / React Native.

### Qnack

qnack.be · Belgium  
2025

High-performance IoT telemetry dashboard + MQTT-based backend print queue with Expo companion app.

- Stack: Next.js, NestJS, MQTT, InfluxDB, Expo / React Native.

### Paratura.be

paratura.be · Türkiye  
2026

Shared expenses, events, real-time chat for families & friend groups — meal planning + personal vault.

- Stack: Next.js, NestJS, Supabase; iyzico + Stripe RC; KVKK-compliant; WCAG 2.5.5 AAA.

### Vetaverse

vetaverse.com.tr · Türkiye  
2025

Pet product marketplace, appointment booking, health records + AI pet-care assistant.

- iOS + Android (Expo / React Native), AWS infra; iyzico + Stripe payments.

## Studio and Client Work

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- **Client e-commerce & web** — Yıldırıms Lagerij (wholesale), Asanlar Oto Yedek Parça (auto parts), Fighting Gym Mol (community, i18n + SEO), İzmir'in Manevi Yıldızları (multilingual content, MDX), Point Akademi (education), World Fauna Atlas (education) · Next.js ecosystem.
- **AI & developer tooling** — Tez Asistanı (RAG-based thesis assistant, Gemini API), TTS-Pi (Raspberry Pi TTS audio node), Yandex → Poste.io self-hosted mail-server migration.
- **IoT & data infrastructure** — Qnack MQTT print bridge (Raspberry Pi + ESC/POS thermal printers, Docker), DataBE localized scraping & lead-gen pipelines (Python + Playwright + Redis, Hetzner).

## Open Source Contributions

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- **ERLiK** — [erlik.be](https://erlik.be/): native Apple Silicon activity & focus intelligence suite (Swift), Homebrew + npm distributed.
- **github.com/halilertekin** — 555+ public repositories · 2.5k+ stars · 89 followers · 22k+ contributions/year · Arctic Code Vault Contributor · GitHub Developer Program (Pro) · Pull Shark ×4 · Pair Extraordinaire ×3.
- **CodexBar** — [github.com/halilertekin/CodexBar](https://github.com/halilertekin/CodexBar): personal fork of Peter Steinberger's macOS menu-bar app ([codexbar.app](https://codexbar.app)), 1.480+ commits.
- **2run/logger** — [github.com/halilertekin/logger](https://github.com/halilertekin/logger): type-safe logger with history, transports and JSON support for Node.js and React Native.
- **CC-RouterMultiProvider** — [github.com/halilertekin/CC-RouterMultiProvider](https://github.com/halilertekin/CC-RouterMultiProvider): use Claude Code as a single interface to access multiple AI providers with intent-based routing.
- **AI Config Manager (AICM)** — [github.com/halilertekin/ai-config-manager](https://github.com/halilertekin/ai-config-manager): open-source CLI command center for AI development environments.
- **Advanced SEO MCP** — [github.com/halilertekin/advanced-seo-mcp](https://github.com/halilertekin/advanced-seo-mcp): SEO audit Python MCP server.
- **turkey\_province\_image** — [github.com/halilertekin/turkey\\_province\\_image](https://github.com/halilertekin/turkey_province_image): 81 provinces, 973 districts, 870+ neighborhoods, 245+ streets of TR address data with TypeScript support.

## Education

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|------------|--------------------------------------------------------------------------|--------------------------------------------|
| <b>BSc</b> | <b>Dokuz Eylül University</b> , Computer Science                         | İzmir, Turkey<br>Sept 2009 – June 2015     |
| <b>BBA</b> | <b>Anadolu University (AÖF)</b> , Business Administration and Management | Eskişehir, Turkey<br>Sept 2015 – June 2018 |
|            | <b>Mithatpaşa Anadolu Technical High School</b> , Software Development   | İzmir, Turkey<br>Sept 2006 – June 2009     |

## Skills

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**Frontend Development:** React (styled-components) · React Native (styled-components) · Next.js 16 · Vue.js · Nuxt.js · Vite · CSS (SASS, Tailwind CSS 4) · Three.js · react-three-fiber · GSAP · Micro Frontend Architecture

**Backend Development:** Node.js · NestJS 11 · Express · FastAPI (Python) · .NET / ASP.NET · Go · GraphQL · REST · Socket.io · AI Model API Integration

**Databases:** PostgreSQL · MongoDB · Redis · Supabase · MSSQL · Drizzle · Prisma · TypeORM · Vector Databases

**DevOps & Cloud:** Kubernetes · Docker · Docker Swarm · GitHub Actions (self-hosted runners) · Linux Server Management · CI/CD · Hetzner Cloud · Azure · AWS · Google Cloud · Nginx · Caddy · Grafana · HashiCorp Vault · Prometheus

**AI / ML & Computer Vision:** OpenAI GPT-4 / GPT-4V · Anthropic Claude · ElevenLabs · KIE.ai · fal.ai · MiniMax · Hugging Face · OpenCV · TensorRT · PyTorch · TensorFlow · LLaMa · Prompt Engineering (LLMs & VLMs) · Multimodal Applications

**Programming Languages:** JavaScript · TypeScript · Python · Go · C++ · C# · PHP

**Methodologies:** Scrum · Agile

**API Design:** REST · GraphQL · gRPC · OpenAPI / Swagger

**Testing & Monitoring:** Unit & Integration Testing · Logging · Debugging · Monitoring (Grafana, Prometheus) · Sentry

**Payments & Compliance:** Stripe · Mollie · iyzico · RevenueCat · Peppol e-invoicing · GDPR · KVKK

**Languages:** Turkish (native) · English (B1) · Dutch (B1)