

# Emmanuel Devins

Head of Application – AI-Native Platform · Looking for new challenges

Lead Tech & AI-Native Platform Architect – LLM workflows · multi-agent orchestration · RAG · headless commerce · biotech.

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## PROFESSIONAL EXPERIENCE

### Head of Application – AI-Native Platform – Biostarks

03/2022 → present · Geneva, Switzerland

- Architect of Biostarks' AI-native platform – three layers built end-to-end: a semantic retrieval ground truth (Elasticsearch biomarker authority file, 1200+ entries), a fleet of production LLM agents (customer-facing for clinical workflows + internal copilots for ops), and a Symfony event-driven back-office that orchestrates them. Peer-reviewed, versioned, in production.
- Biostarks front-end platforms (ReactJS + TailwindUI) – same stack for two apps: patient app with structured capture (conditions, supplements, protocols), lab report (PDF/HL7) + genomic data ingestion, longitudinal biomarker visualization (Highcharts + animated score wheel) powering Maurice/Henri recommendations; B2B practitioner portal with patient cohort management, role-based access, result sharing and operational analytics dashboards.
- Backend architecture rebuild and AWS CI/CD via CloudFormation (infrastructure as code).
- WordPress → Shopify Hydrogen migration in full-metaobjects headless mode, with server-side tracking (GA4 Measurement Protocol + Meta Conversions API).
- Symfony back-office extension into event-driven architecture (covered by 2,800+ automated tests): DBS kit lifecycle, B2B partner APIs, orchestration and versioning of AI agent prompts in production.
- Customer-facing AI agents in production: Maurice (context-aware multi-biomarker clinical scoring – therapeutic protocols, longitudinal panels), Henri (document intelligence – OCR / HL7 / multi-lab PDFs normalized to the authority schema), Sally (genomic value extraction from PDFs), Clyde (multilingual translation).
- Internal operational copilot fleet on Claude CoWork: Slack / Notion signal-mining, autonomous task generation with peer-review gates, quality supervision and daily structured reporting – replaces recurring stand-ups.
- Semantic retrieval ground truth – biomarker authority file on Elasticsearch / AWS OpenSearch: 1200+ entries, 20+ classes, multi-lab / multi-language disambiguation. Versioning and changelog backed by Notion, peer-reviewed enrichment via the Claude `biomarkers-explorer` skill (propose → confirm → commit, audit log).
- Claude Skills + MCP ecosystem unifying Slack ⇔ Notion ⇔ Jira ⇔ Linear into a single command surface, extended to non-tech teams via Claude CoWork – any team member operates their tools in natural language (`task-operator`, `biomarkers-explorer`, `doc-operator`).
- Eval and observability layer for production agents: capture → review → regression-test, with quality-gate skills blocking any prompt change before it ships.
- Git workflow automated via a local Claude Code skill – commits with generated changelog, automatic branch merging, tag versioning.
- Labsoft – internal system (Laravel + Python pipelines) transforming raw lab data into final client results: computation, normalization, distribution. REST APIs with OAuth2 + Webhooks for real-time sync.

Recommendation – [Mark Baker](#) (Former CTO, Biostarks · 2023-01-13)

Stack – Claude Skills · Claude Agent SDK · Claude CoWork · Cursor · MCP · RAG / Semantic retrieval · LLM orchestration · Multi-agent systems · Prompt versioning · Document intelligence · Notion API · OpenAI Platform · PHP · Symfony · Laravel · Python · ReactJS · Shopify Hydrogen · Metaobjects · Elasticsearch · AWS OpenSearch · Docker · AWS · CloudFormation · Supervisor · CI/CD · REST API · OAuth2 · Webhooks · Git · Event-driven · GA4 Measurement Protocol · Meta Conversions API

### Co-founder & CTO – The Hush Market

10/2023 → 01/2026 · Annecy, France

- Co-founder and technical lead – B2B real-estate inter-agency platform, 100% free for professionals: 600+ agents onboarded, 2,000+ properties, 20,000+ active buyers. Featured partner at RENT Paris 2025.
- B.Q.R.I.S. – proprietary matching engine scoring property ⇔ buyer-project compatibility on 50+ real-time criteria, with automatic opportunity prioritization.
- Full architecture and development: website, authenticated pro portal, iOS and Android mobile apps – bidirectional CRM integrations (apimo, hektor, immofacile, netty) with dedup and weekly sync.
- Hostinger hosting, secure inter-pro messaging, granular per-listing confidentiality controls.

Stack – PHP · Laravel · ReactJS · TypeScript · React Native · Tailwind CSS · Vite · Node.js · Hostinger · CRM integrations · Brevio

### Web Developer – Web Expert Business

01/2020 → 03/2022 · Chavanod, France

- Technical support and maintenance of the Miliboo e-commerce platform.
- Internal VueJS applications (customer support, analytics, ops) via centralized GraphQL API under Laravel.
- Internal Electron tools for the support / ops team.
- Technical ecosystem: CI/CD, unit testing (PEST), linting (phpcbf).

Stack – PHP · Laravel · GraphQL · VueJS · Elasticsearch · Redis · Docker

### Developer / Lead – Esperite Group (Cryo-Save, Genoma)

08/2015 → 01/2020 · Geneva, Switzerland

- European cord blood bank – 300,000+ clients, ISO/QMS environment.
- Complete client management system: contracts, invoices, patient data, lab results, with business automations (certificates, confirmation letters).
- Genetic diagnostic platform based on machine learning.
- Commercial application: lead qualification, scoring, opportunity forecasting.
- Call system with campaign management, scripts, intelligent call queue, analytics dashboards (call duration, conversion, refusals/agreements).
- HR intranet: leave, expenses, hierarchical validations, advanced rights system, dynamic org chart.

Stack – PHP Object · Python · REST API · Yii · Cron · MariaDB · MySQL · SuiteCRM · Bash · Framework7

## SKILLS

**Development** — PHP · Symfony · Laravel · ReactJS · TypeScript · Node.js · VueJS · Python · GraphQL

**AI & automation** — Claude Skills · Claude Agent SDK · Model Context Protocol (MCP) · Cursor · OpenAI API · Production AI agents · GA4 Measurement Protocol · Meta Conversions API · Notion API

**Databases** — MySQL · MariaDB · Elasticsearch · AWS OpenSearch · Redis

**Infrastructure** — AWS · CloudFormation · Docker · Supervisor · Nginx · Linux / Bash · CI/CD

**E-commerce** — Shopify Hydrogen · Shopify Storefront API · Metaobjects · Stripe

**UI** — TailwindUI · MaterialUI · Bootstrap · Figma

**Practices** — REST API · OAuth2 · Webhooks · Event-driven architecture · Unit Testing (PEST) · TDD · Git

## LANGUAGES

**French** — Native

**English** — Full professional proficiency

## EDUCATION & TRAINING

**Professional License** — IT Project Management

IUT Annecy · France · 2015–2016

**BTS IRIS (Computer Networks Systems)**

IUT Lorgues · France · 2012–2014

## REFERENCES

[biostarks.com](https://biostarks.com) — Headless Shopify Hydrogen storefront, full-metaobjects approach.

[results.biostarks.com](https://results.biostarks.com) — Lab results platform — patient interface.

[pro.biostarks.com](https://pro.biostarks.com) — B2B practitioner portal — patient cohort management, role-based access.

[miliboo.com](https://miliboo.com) — E-commerce platform maintained at Web Expert Business.

## FEATURED PUBLICATION

[Making Biostarks an AI-native at-home biomarker testing company](#)

Romain Dorange — CEO & co-founder, Biostarks — Late Night Convo · 2026-04-12