

HUGO MINARI DINIZ

Senior Software Engineer | Fullstack Developer | Backend | Python/Django/FastAPI | PHP/Laravel | Node.js/NestJS | React/Angular/Vue

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Open to remote opportunities in Brazil and internationally

PROFESSIONAL SUMMARY

Senior Software Engineer with 15+ years of experience designing, evolving, and maintaining scalable, secure, and integrated web systems. Backend specialist in Python (Django, Django REST Framework, FastAPI), PHP/Laravel, Ruby on Rails, and Node.js (NestJS, Express), with strong frontend delivery in React, Angular, Vue/Nuxt, and TypeScript. Proven track record on mission-critical platforms across electronic real-estate registry, notary/registry offices, banking, government, medical education, premium travel, e-commerce, vehicle data services, and digital marketing. Skilled in clean architecture, robust REST APIs, secure integrations (SOAP/REST, HMAC webhooks), ICP-Brasil digital signature, multitenancy, LGPD compliance, and continuous delivery. Recent hands-on work in applied AI, autonomous agents, and automation.

TECHNICAL SKILLS

Backend & APIs: Python, Django, Django REST Framework (DRF), FastAPI, PHP, Laravel, Lumen, Ruby on Rails, Node.js, Express, NestJS, REST APIs, SOAP/REST integrations, webhooks, OAuth2, JWT, HMAC, idempotency, RBAC.

Frontend: React, Angular, Vue.js, Nuxt.js, TypeScript, JavaScript, Vite, Tailwind CSS, shadcn/Radix, React Native/Expo, NativeWind, HTML5, CSS3.

Data & Messaging: PostgreSQL, MySQL, SQLAlchemy, Alembic, Prisma, Redis, pgvector, Kafka, RabbitMQ, Celery, Elasticsearch, Firebase/Firestore, InfluxDB.

DevOps & Cloud: Docker, Docker Compose, CI/CD, GitHub Actions, Linux, macOS, AWS (S3, SQS, ECS/Fargate, Secrets Manager), Firebase Hosting, Cloudflare R2, Nginx, Caddy, cPanel/VPS, Heroku.

Security & Architecture: Clean Code, modular architecture, microservices, multitenancy, API security, Keycloak, encryption (Fernet), ICP-Brasil digital signature, SSRF protection, immutable audit trails, LGPD compliance, automated testing, code review, Scrum/Kanban, technical leadership.

AI & Automation: LLM integration, Ollama, RAG, embeddings, pgvector, reranking, model routing, multi-agent systems, MCP servers, voice pipelines (STT/TTS), Home Assistant, IoT.

PROFESSIONAL EXPERIENCE

HMDeveloper LTDA

Founder & Principal Software Engineer | Oct 2021 – Present | Brasília, Brazil (remote)

My own company, opened in October 2021, and the contracting vehicle for the engagements with FCamara/Infracommerce, Atlas Technologies, AI Solutions, RequestIT/PDTEC, and Fabritech. Since August 2026 the focus has been applied-AI R&D and building my own products.

- Built an on-premises multi-agent platform that I use daily: 28 specialized agents, semantic memory with RAG (PostgreSQL/pgvector and reranking), routing between a local LLM (Ollama) and cloud escalation when the local model falls short, MCP servers, and a bilingual desktop HUD in React 19/Tauri 2.

- Built a multi-tenant SaaS that tailors résumés to job postings, in FastAPI, SQLAlchemy 2, and PostgreSQL with per-tenant RLS, Firebase/JWKS authentication, job ingestion over public APIs, and a validation layer that stops the model from inventing experience the candidate does not have.

Fabritech – Software Consultancy & Solutions

Senior Fullstack Developer | Nov 2025 – Jul 2026 | Remote

Delivered mission-critical full-stack platforms for electronic real-estate/banking registry and vehicle data services, focusing on APIs, government integrations, authentication, payments, digital signature, and web portals.

- Built modules for a multi-tenant SaaS platform for electronic real-estate registry in FastAPI with 42 modules and 97 migrations, SQLAlchemy 2, PostgreSQL 17, Kafka (13 workers), and Celery, serving 6 role-based portals.
- Implemented integrations with the ONR (Brazilian National Electronic Registry Operator) through a multi-tenant SOAP gateway (WSSAEC/E-Protocol PEER-IF v5.0 and WSOfficio), with schema-segmented PostgreSQL, a Redis token pool, Celery workers on AWS ECS Fargate, and per-tenant credentials encrypted with Fernet, reaching 80% test coverage.
- Developed a multi-provider electronic signature orchestrator (Lacuna Web PKI/PAdES, IntegralICP ICP-Brasil, IdRC) with provider routing, Celery (6 queues), immutable audit trail, SSRF protection, and HMAC-SHA256 webhooks for secure callbacks.
- Delivered an e-commerce platform for vehicle and driver data lookups, with Angular 20, Node.js 20/Express, PostgreSQL 17, Docker Compose, and Nginx, including dual-token auth, HttpOnly/Secure cookies, a secure proxy to an external API, HMAC webhooks, and real-time payment status via SSE.
- Ensured LGPD compliance (soft-delete and audit logging), observability (New Relic, Rollbar), and production non-functional requirements (99.9% availability, p95 < 200 ms).

RequestIT / PDTEC

Senior Fullstack Developer | Nov 2023 – Aug 2025 | Remote

Developed and maintained digital platforms and corporate integrations, focusing on security, scalability, and system-to-system communication.

- Built the GoInsiders platform (creators, affiliates, and campaigns) with NestJS, Prisma, PostgreSQL, React, AWS S3, and Caddy, including Instagram and TikTok integrations, a KYC flow, a digital wallet, performance reporting, social publishing, and payments.
- Developed APIs and backend services with Python/Django/DRF, FastAPI, and Node.js/NestJS, integrated via webhooks and messaging, backed by PostgreSQL and Redis.
- Contributed to architecture decisions for the evolution of critical modules: authentication, auditing, idempotency, and technical compliance.

AI Solutions

Senior Fullstack Developer | Nov 2022 – Feb 2024 | Remote

- Developed government projects and corporate systems with Laravel 8/9/10, PostgreSQL, Vue.js/Nuxt.js, Elasticsearch, Docker, and CI/CD pipelines.
- Built APIs, search engines, and integrations, with performance improvements in high-demand environments.

Atlas Technologies

Backend Developer | May 2022 – Mar 2023 | Remote

- Maintained and evolved legacy systems in Laravel, MySQL, and Redis, focusing on stability, performance, and API reliability.

Grupo FCamara / Infracommerce

Backend Developer | Oct 2021 – May 2022 | Remote

- Built robust APIs in Laravel 8 and contributed to event-driven architecture, focusing on scalability, operational security, and business-process protection.

Liket Brasil

Tech Lead / Senior Fullstack Developer | Dec 2017 – Oct 2021

- Joined from the startup's early stages, leading the development team, distributing tasks, reviewing code, and supporting technical and product decisions.
- Continuously delivered web features, APIs, and structural improvements, focusing on best practices and sustainable product evolution.

Plug Digital

PHP Developer | Aug 2016 – Dec 2017

- Built web solutions and APIs with a proprietary framework, Git/SVN, and security- and maintenance-oriented practices.

Freelancer

PHP / Fullstack Developer | Oct 2014 – Aug 2016

- Developed web projects with CakePHP, CodeIgniter, WordPress, Drupal, and structured PHP in MVC architecture.

Solute Agência Digital

PHP Developer | Aug 2013 – Oct 2014

- Maintained and built websites, e-commerce stores, intranets, and web systems with PHP, MySQL, HTML, CSS, and JavaScript.

HPTI Tecnologia da Informação

Junior Web Developer | Feb 2011 – Jul 2013

- Turned static websites into dynamic systems with PHP/MySQL and built a custom CMS.

SELECTED PROJECTS

Electronic Real-Estate Registry & Digital Signature SaaS

Multi-tenant B2B SaaS platform connecting administrators, notary/registry offices, banks, buyers/sellers, and documents across the full real-estate registry lifecycle with legal validity.

- **Stack:** FastAPI, SQLAlchemy 2, PostgreSQL 17, Kafka, Celery, Redis, React, Angular 19, Docker Compose, AWS (S3, SQS, ECS), Nginx.

- **Highlights:** SOAP integration with the ONR, ICP-Brasil digital signature (Lacuna, IntegralCP, IdRC), 6 role-based portals, immutable audit, LGPD, HMAC webhooks, and observability (New Relic, Rollbar).

Vehicle Data Lookups & Payments E-commerce

E-commerce platform for vehicle and driver data lookups, with catalog, cart, checkout, history, and real-time payment status.

- **Stack:** Angular 20, TypeScript, Tailwind, Node.js 20, Express, PostgreSQL 17, Docker Compose, Nginx.

- **Highlights:** dual-token auth, HttpOnly/Secure cookies, secure proxy to an external API, HMAC webhooks, real-time SSE, and LGPD-safe data.

UniCETREX – Medical Education Platform

Platform for a surgical postgraduate education company (video surgery, endoscopy, laparoscopy), with public/SEO site, lead capture, enrollments, payments, and role-based portals.

- **Stack:** React 19, TypeScript, Vite, FastAPI, Python 3.13, SQLAlchemy 2, Alembic, PostgreSQL 17, Redis, Docker Compose, GitHub Actions.

- **Highlights:** 6 portals (admin, sales, finance, academic, professor, student), lead capture integrated with WhatsApp

(Evolution API) and Agendor CRM, Cielo payments (PIX/credit/boleto), QR-code check-in, commission calculation, SSR/SEO, LGPD, and auditing.

GolInsiders – Creators, Affiliates & Campaigns

Platform for campaign management, creators/affiliates, and social monetization.

- **Stack:** NestJS, Prisma, PostgreSQL, React, AWS S3, Caddy.

- **Highlights:** Instagram and TikTok integrations, KYC, digital wallet, performance reporting, social publishing, and creator payouts.

Alive Tour – Premium Travel Agency Platform

Evolution from a landing page into a full platform with public site, CMS, RBAC, role-based portals, leads, loyalty, and subscriptions.

- **Stack:** Expo, React Native, Expo Router, NativeWind, TypeScript, React Native Web, Firebase (Firestore, Auth, Cloud Functions, Storage, Hosting).

- **Highlights:** CMS with 16 admin screens, 5 operational portals, RBAC with 6 roles via custom claims, budget-based discovery tool, loyalty program, and lead capture with WhatsApp follow-up.

JARVIS – Personal AI, Agents & Automation Lab

On-premises, voice-first personal platform inspired by J.A.R.V.I.S., used daily as an applied-AI lab.

- **Stack:** Python 3.12, FastAPI, aiohttp, WebSockets, React 19/Tauri 2, PostgreSQL 15/pgvector, Redis, Ollama, MLX Whisper (STT), Kokoro/Piper/XTTS (TTS), MCP servers, Docker Compose.

- **Highlights:** 28 specialized agents, semantic memory with RAG and reranking, model routing (local LLM + cloud escalation), Home Assistant integration, bilingual desktop HUD (EN/PT-BR), observability (Prometheus/Grafana), and local-first, human-in-the-loop architecture.

EDUCATION

- Systems Analysis and Development — UniCEUB, Brasília/DF, Brazil (incomplete).
- Bachelor of Information Systems — FACITEC, Brasília/DF, Brazil (one semester completed).

LANGUAGES

- Portuguese — native.
- English — advanced technical reading and writing; follows technical conversation comfortably, speaks at an intermediate level.

PROFESSIONAL ATTRIBUTES

Technical leadership, clear communication, emotional intelligence, adaptability, organization, proactive problem-solving, product vision, autonomy, and a passion for clean architecture, automation, and innovation.