

MIGUEL SANZ BORAGAN

Back-end Software Engineer

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SUMMARY

Back-end Software Engineer with 2 years and 8 months in-house (Feb 2024 – Oct 2026) and freelancing since 2023, building APIs, distributed systems and production integrations with PHP/Laravel, Go, Python and Node.js. At a conversational-AI fintech, I was the top contributor to the Laravel CRM, built the Go messaging gateway and the FastAPI API platform from scratch, and ran the production migration from GCP to AWS from planning to execution. Focused on clean architecture, security, automated testing and observability. Looking for a mid-level back-end role, remote (including as a contractor for companies abroad, e.g. via Deel, paid in USD) or in São Paulo (hybrid or on-site), starting immediately.

TECHNICAL SKILLS

Languages: PHP 8.4, Go, Python, TypeScript, JavaScript, SQL, Java

Frameworks: Laravel 13, FastAPI, Fiber, Spring Boot, Vue 3, Inertia.js, React, React Native · Runtime: Node.js

Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Redis

Architecture: REST APIs, microservices, modular monolith, hexagonal, tactical DDD (domain modeling), multi-tenant, queues and workers, inbox/outbox, idempotency

Quality: TDD (red-green-refactor), automated tests (Pest, PHPUnit, pytest, Go test), PHPStan, mypy, golangci-lint, coverage gates, code review

Cloud and DevOps: AWS (EC2, RDS, ECR, SSM, S3, Lightsail), Docker, GitHub Actions, OIDC, Nginx, Linux, k6, Prometheus, Grafana

Applied AI: LangGraph, OpenAI, Gemini, RAG, function calling

Agile: Kanban (GitHub Projects), Scrum (2-week sprints)

EXPERIENCE

Back-end Software Engineer | Evig (conversational-AI fintech)

São Paulo, Brazil · Hybrid | Jan 2026 – Oct 2026

- Top contributor to the multi-tenant Laravel CRM: 729 commits (48% of the total) and 197 pull requests; took PHPStan from 1,770 errors to zero and wrote 94% of the test files (2,100+ tests).
- Designed and built the Go messaging gateway (ports & adapters, PostgreSQL outbox, 3-layer idempotency): 900 msg/min for 10 min with 0% failures and a p95 of 1.05 s in load testing. Built with TDD (red-green-refactor): 3 out of 4 of my commits ship the tests together with the code.
- Built the FastAPI API platform (modular monolith) with a 100% branch-coverage gate and an OpenAPI contract locked in CI; cut the connection pool from 20 to 8 per replica.
- Built the platform's multi-tenant RAG copilot in FastAPI (98% of commits, 740 tests): company-wide admin documents, private per-user documents and tested cross-tenant rejection; contributed to the LangGraph finance and credit agents on Brazil's Open Finance.
- Cut the AI router's p50 latency by an estimated 25% to 40% by lowering its reasoning level, keeping 120/120 in the eval (6 cases × 20 runs) and 35/35 on a trap-phrase suite.
- Migrated the production database and instances from GCP to AWS, centralized secrets in SSM via OIDC across all projects and set up observability with Prometheus and Grafana.
- Fixed a cross-tenant IDOR vulnerability and resolved production incidents with root-cause analysis (duplicate sends in queues, OOM during builds and PostgreSQL permissions).

Team working in a Kanban flow on GitHub Projects. The company shut down in October 2026 after running out of funding.

Back-end Developer (freelance project) | Accusense

Remote · alongside Evig, outside business hours, in 2-week Scrum sprints | Feb 2026 – May 2026

- Cut the cost of news collection by 99% (~US\$ 21k/year, R\$ 107k; estimate): the API I built from scratch replaced the manual work of 3 operators, who moved to other roles, and runs for ~US\$ 15/month on AWS.
- Built the company's news extraction API from scratch in PHP 8.4, Laravel 12 and MongoDB 7, evolving a command-line script into a REST API with an asynchronous queue pipeline (download → parsing) and a per-article state machine; top contributor to the repository (63% of commits).
- Built a generic extraction engine with no per-site selectors: 5 layers with fallback (high-confidence selectors, scored semantic HTML, JSON-LD, Next.js and Arc/Fusion SPA data and a density heuristic), cascading metadata (Open Graph → JSON-LD → Twitter → HTML) and noise cleanup (ads, paywalls, menus).
- Implemented automatic collection: per-site RSS/Atom/Sitemap feed discovery (HTML, standard paths, robots.txt and sitemap index), deduplication in cache + MongoDB and scheduling every 15 min.

- Implemented resilience with retries and exponential backoff, per-host rate limiting, UTF-8 encoding normalization, automatic site deactivation after 5 consecutive failures and URL validation that rejects tag, media and UTM URLs (HTTP 422).
- Set up the test suite with PHPUnit 11 (120+ unit tests on the extraction engine and 100% coverage on the API controller), upgraded to Laravel 12 and refactored a god class into single-responsibility services.

Full Stack Engineer | Digital LZ

São Paulo, Brazil · Hybrid | Feb 2024 – Jan 2026

- Automated the manual sending done by 8 debt-collection agents, who were reassigned (~US\$ 48k/year, R\$ 240k, in manual work; estimate): the ~100 WhatsApp bots I built in Node.js/TypeScript, on the company's own server, send up to 20k messages a day. Fixed duplicate sending, with ~15 fewer WhatsApp numbers banned per month.
- Built the self-service debt-settlement portal in Laravel, SQL Server and MySQL: ~100 settlements a month closed by debtors themselves, with CPF (Brazilian taxpayer ID) login and WhatsApp confirmation, no operator involved.
- Built the Robot Portal in Laravel 10 and SQL Server to monitor the sending bots: real-time dashboard, Docker container control and logs.
- In the bots (Baileys, Prisma, SQL Server), implemented retries with exponential backoff, cron scheduling and business-hours and holiday rules.
- Set up CI/CD with GitHub Actions on self-hosted runners and automatic deploys of the company's PHP website.

Since Jan 2026: occasional on-demand freelance fixes, outside business hours.

Freelance Developer | Self-employed

Remote · outside business hours | Jan 2023 – Jun 2026

- Saved a client ~3 hours of manual work a day (~66 h/month, ~US\$ 6k/year, R\$ 31k, of her time; estimate): web automation with Node.js, TypeScript and Puppeteer, a PostgreSQL task queue and one container per bot orchestrated through the Docker API, running 24/7.
- Built a digital guest check-in system in Vue 3, deployed with Docker and Nginx as a reverse proxy.

PROJECTS

Open-source Linux configurators for the 8BitDo Ultimate 2, GameSir Cyclone 2 and ATTACK SHARK X11, built by reverse engineering their USB HID protocols (Python, CLI + GUI, Flatpak/.deb/ApplImage) — 55★ on GitHub · github.com/MiguelSanzBr

EDUCATION

Bachelor's in Software Engineering | Centro Universitário Internacional UNINTER (Brazil) | 2026 – 2029 (in progress)

Technical diploma in Systems Development | ETEC, São Paulo state technical school | 2023 – 2025

Instituto PROA (career-training program) | 2025

CERTIFICATIONS

Linux Fundamentals | FIAP | 2025

Digital Safety and Security Awareness | Cisco | 2026

3rd place, Java.Xpert Hackathon | FIAP

LANGUAGES

Portuguese: native · English: intermediate (fluent technical reading), open to interviews in English