

Carlos Gude Sánchez

Senior Backend Engineer & Software Architect

PHP • SYMFONY • DDD • API INTEGRATIONS • LEGACY MODERNISATION • DISTRIBUTED SYSTEMS

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integrationengine.dev
Open to fully remote roles

PROFILE

Senior backend engineer with 10+ years building and modernising PHP/Symfony products and distributed systems. Strong in end-to-end ownership, API and integration architecture, legacy modernisation, DDD and test-driven refactoring. Experienced in turning ambiguous technical problems into maintainable production solutions, improving security and engineering quality, and evolving mature systems without disrupting delivery. Author and maintainer of the open-source IntegrationEngine Symfony bundle.

10+

years backend

100+

endpoints modernised

15+

production integrations

300K+

messages/min

EXPERIENCE

Datcisions | Senior Backend Engineer

Jul 2026 - Sep 2026

Stock and purchase-planning SaaS for fashion and retail brands

- Raised PHPStan on the core platform from level 5 to 9, reducing the baseline from 3,339 to 239 errors (-93%) while keeping delivery moving.
- Recovered a broken test suite and expanded it to 2,100+ passing tests, creating the safety net used to refactor and modularise the core.
- Separated IAM and access control from Security, redistributed 127 migrations across modules, and removed 53,000 lines of dead code across three repositories without breaking CI.
- Built and shipped a Holded ERP connector from scratch in 11 days, with PHPStan and PHP-CS-Fixer enforced in CI from the first commit.
- Performed a self-initiated security review and identified and fixed two IDOR vulnerabilities.

PrimeIT | Senior Backend Engineer

Apr 2025 - Jun 2026

International IT consultancy

- Led a zero-downtime migration of a legacy system with 100+ endpoints from PHP 7.4 / Symfony 4 to PHP 8.3 / Symfony 6.
- Rebuilt authentication on Symfony Security, replacing the previous vulnerable model; worked with Docker, CI/CD and Kubernetes/AKS environments.

Quadrant TravelTech | Backend Engineer, Integrations

May 2023 - Mar 2025

Via Interacso (May 2023 - Jan 2024), then hired directly by Quadrant

- Designed and implemented 5+ travel integrations, including Booking.com, Iberia, Lleego and Hostalia, using contract-based boundaries that decoupled API clients from the business domain.
- Built a multi-provider integration layer where new providers could be added without changes to the core, improving extensibility and reducing vendor coupling.

Auro | Backend Engineer

Mar 2021 - Mar 2023

- Developed and integrated 10+ external partner APIs for a last-mile logistics platform with real-time shipment tracking.
- Designed event and messaging flows coordinating multiple carriers, including rider positioning workloads above 300,000 messages per minute under high concurrency.

Jamenet | Backend Engineer (project-based)

Jun 2020 - Mar 2021

- Built the Drupal-Symfony-Vue integration for Metro Bilbao, a 24/7 system serving real passenger traffic, including real-time bulk processing of route and timetable data.

EARLIER EXPERIENCE

Freelance | Real-time streaming platform

Jan 2020 - Jun 2020

Solo end-to-end build of a Twitch-style platform: live chat, video streaming, payments, virtual economy and moderation.

Syntelix | Backend Engineer

May 2019 - Jan 2020

Real-time ingestion pipelines and ordered, lossless messaging for maritime telemetry.

Card2Card | Full-stack Symfony Developer

Nov 2017 - May 2019

Sole technical owner of a customisable SaaS e-commerce platform.

Freelance | Web and PHP backend development

2012 - 2017

Bespoke web projects across multiple sectors.

SELECTED OPEN SOURCE

IntegrationEngine | Symfony Bundle - Author & Maintainer

github.com/CarlosGude/integrationEngine · integrationengine.dev · Packagist

- Open-source Symfony integration engine that standardises outbound APIs through explicit Action -> Mapper -> Response contracts while keeping external models behind application/domain boundaries.
- Core / Infrastructure / Bundle architecture with Ports & Adapters, dependency direction enforced by Deptrac, and compatibility across PHP 8.2+ and Symfony 6.4 / 7 / 8.
- Supports cached dynamic auth, concurrent batch dispatch, multi-connection resolution, middleware and request signing, REST/GraphQL/form requests, typed HMAC webhooks, lifecycle observability, retries/timeouts and outbound host protection.
- CI quality gates: PHPStan max with no baseline, 796 tests / 2,238 assertions, Deptrac with zero violations, and Infection MSI 96.00% / covered MSI 97.27% with default mutators enabled.

IntegrationEngine Demo | Symfony 7.4 / PHP 8.4

github.com/CarlosGude/integrationEngine-demo

- Executable reference application covering REST/TMDB, GraphQL/Countries, CSV/Supplier and Stripe form-encoded requests + signed webhooks.
- Demonstrates concurrent sendMany() workloads, partial failure isolation and measured 5-13x speedup for 20 concurrent movie loads over sequential execution.
- Uses bounded contexts and gateways to isolate integrations from business code; CI enforces tests, PHPStan max, PHP-CS-Fixer, Deptrac, production install/Docker validation and mutation testing.

TECHNICAL SKILLS

Architecture	DDD, Hexagonal Architecture, Ports & Adapters, Clean Architecture, Event-Driven, CQRS, Anti-Corruption Layers
Backend	PHP 8.x, Symfony 6 / 7 / 8, API Platform, Doctrine, REST, GraphQL, Webhooks
Engineering	TDD, PHPUnit, PHPStan max, Infection, Deptrac, PHP-CS-Fixer, SonarQube/SonarCloud, Xdebug
Distributed	RabbitMQ, SQS, Azure Queue, concurrency/batching, retries, timeouts, idempotency, event messaging
Infrastructure	Docker, GitHub Actions, Kubernetes / AKS, Linux; production CI/CD and zero-downtime migrations
Data	MySQL, PostgreSQL, Redis
AI-assisted development	Daily use of coding agents for implementation, refactoring, review and documentation, with validation through tests, static analysis and CI gates

LANGUAGES

Spanish	Native
English	Professional working proficiency

EDUCATION

Higher Technician in Network Computer Systems Administration (EQF level 5)	2010 - 2012
Ongoing self-directed study in software architecture, DDD and the PHP/Symfony ecosystem, applied directly in professional and open-source work.	