







Nicolás Andrade

Senior Backend Developer – Distributed Systems, Platform Reliability & Domain Design

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BACKGROUND

ABOUT

Backend software developer with 15+ years building and evolving production systems – from high-traffic distributed platforms to domain-driven service architectures.

Focused on long-term system design, engineering standards, and the kind of foundational work that compounds: clear domain boundaries, metrics-driven reliability, and disciplined change management.

Experienced driving cross-team technical alignment, incident ownership, and architectural consistency across distributed environments.

WORK EXPERIENCE

- **Senior Software Developer, Integrations and Innovation Team, Confidential Company**
Apr, 2026 - Present

Senior software developer on the Integrations and Innovation team, working on a public customer-facing API and AWS-based document-processing workflows, with an emphasis on modernizing legacy code, improving observability, and reducing developer friction.

- Maintain and improve the public customer-facing Suppliers API, owning the domain context and integrating backend services including OpenSearch and S3.
- Own the document indexing pipeline that listens for newly created files, extracts their text, and indexes them for text-match search using AWS services including Textract, S3, EventBridge, DynamoDB, and OpenSearch.
- Introduced domain-driven design concepts into a legacy Laravel application to improve boundaries, clarity, and long-term maintainability.
- Used DTO-driven OpenAPI generation to keep API documentation closer to runtime behavior, including applying my `laravel-data-openapi-generator` package in production-oriented API workflows.
- Standardized logging mechanisms to improve visibility and troubleshooting in Datadog and other observability platforms.
- Added code-coverage metrics and increased test coverage across more than 40% of the codebase, improving confidence in changes to a legacy system.
- Contributed automation improvements in delivery pipelines to reduce manual work and increase deployment consistency.

- Enabled a Docker-based local environment with single-command setup that provisions GitHub account access, SSH keys, GPG commit signing, and core dependencies such as Homebrew, Colima, and the GitHub CLI, reducing onboarding time and making local behavior closer to QA and production.
- Used developer productivity tooling, including Claude and Copilot, to support implementation workflows and improve local development ergonomics.
- Tech: Laravel, OpenSearch, Textract, S3, EventBridge, DynamoDB, CloudWatch Logs, GitHub Actions, Datadog, Claude, Copilot

Senior Back-End Software Developer, Roofr

Apr, 2023 - Apr, 2026 🕒 3 years

Senior backend developer contributing to core domain services (payments, invoicing, proposals), with an emphasis on DDD-style architecture, reliability, and raising engineering standards across production systems.

- Introduced Value Objects, Aggregates and Entities as a mechanism for encoding business rules at the domain boundary; the pattern was adopted across three other teams, shifting how the org approached domain integrity and invariant enforcement.
- Advocated for clear domain boundaries across services; reducing cross-team coupling, enabling teams to build deeper expertise within their domain, and increasing autonomous delivery.
- Led architectural transition from ORM-coupled models (CycleORM) toward repository-based domain boundaries, improving decoupling, testability, and long-term system flexibility.
- Drove cross-team alignment on authorization patterns through reusable policies and typed DTOs, clarifying access boundaries and reducing duplication.
- Introduced stricter pre-merge validation gates (static analysis, enforced test suites, custom PHPStan rules), reducing regression risk and increasing engineering accountability across services.
- Standardized local development workflows to reduce environment drift and improve confidence in pre-merge validation and onboarding.
- Drove post-incident analyses for production issues, identifying root causes and driving preventative changes to reduce recurrence.
- Authored and supported RFCs to improve engineering standards, development workflows, and architectural consistency across teams.
- Tech: PHP 8, Laravel, PostgreSQL, Redis, Docker, GitHub Actions, PHPStan, Sentry, MetaBase

Tech Lead - Senior Full-stack Software Developer, Pricing Domain, SSENSE

Nov, 2017 - Jan, 2023 🕒 5 years 2 months

Led the Pricing domain to improve correctness, performance, and availability of global price calculation and related services.

- Led the Pricing domain team, guiding feature exploration, technical design, and delivery with a focus on scalability and operational safety.
- Modernized parts of a legacy monolith by extracting capabilities into cloud-native services.
- Built an eventually-consistent framework for near real-time per-product aggregates from multiple data sources, minimizing incremental effort for new aggregate types.
- Designed and deployed a Slack integration to query real-time product information (price, stock, description, discounts) from internal systems.
- Owned incident response and post-incident reporting for production services, defining mitigation strategies and preventative actions.

- Contributed to engineering standards through code reviews, coaching, and participation in hiring (interviews + debriefs).
- Tech: PHP, Python 3, Lambda, DynamoDB, SQS, S3, SNS

Lead Code Auditor; Internal Product Security Team, MindGeek

Feb, 2017 - Nov, 2017 🕒 9 months

Tech lead for internal product security reviews and security engineering guidance across teams.

- Reviewed internal applications to identify security weaknesses, bugs, exploit paths, and violations of secure coding standards.
- Provided technical guidance to security analysts and engineering teams; contributed to security awareness trainings for new hires.
- Triageed bug-bounty submissions, assessed impact, and coordinated follow-ups with engineering and infrastructure stakeholders.

Tech Lead / Senior Software Developer, MindGeek

Oct, 2010 - Feb, 2017 🕒 6 years 4 months

Led teams and services across multiple products; later worked on a high-traffic advertising platform improving CMS and analytics capabilities.

- Led a team of ~7 developers across multiple projects; served as the interface between frontend, backend, and product stakeholders.
- Redesigned and consolidated inherited codebases to reduce duplication and improve maintainability across multiple services.
- Designed a framework to unify multiple domains into a single backend codebase, reducing development and maintenance overhead.
- Improved performance and reliability by identifying bottlenecks, tuning systems, and supporting production operations.
- Participated in hiring by running technical interviews and contributing to debrief sessions.

</> PROJECTS EXPERIENCE

● **Laravel Data OpenAPI Generator**

- Present

Built and extended a Laravel package that generates OpenAPI specifications directly from routes and Spatie Laravel Data DTOs, reducing documentation drift by keeping API docs derived from application code.

- Attribute-driven documentation support for summaries, descriptions, examples, tags, custom content types, and custom HTTP response statuses.
- Route-parameter inference, including support for Spatie `FromRouteParameter`, so path parameters can be documented from DTOs instead of duplicated manually.
- Maps Laravel auth and authorization middleware into OpenAPI security requirements plus generated 401/403 responses, making the specification closer to real runtime behavior.
- Allows schema namespace aliasing to make the package safer to adopt in real Laravel applications.

● **Serverless-offline-lambda-docker**

- Present

Serverless plugin enabling local development with Serverless Offline while deploying AWS Lambda as Docker images via CloudFormation, to keep local/dev/prod behavior closer and reduce friction.

- Improved local development ergonomics for teams using Lambda container images.
- Focused on transparent developer experience: same workflow locally and in AWS.

● Cachier (bug fix contribution)

- Present

Contributed a backwards-compatible fix for a bug that could lead to deadlocks under certain conditions, implemented as an opt-in behavior for users.

- Bug fix with careful backwards-compatibility considerations.

● S3rver (bug fix contribution)

- Present

Fixed an issue with improper handling of HTTP Range requests, which caused downstream failures for clients relying on correct partial-content behavior.

- Improved protocol correctness for local S3-compatible development tooling.

● Serverless-step-functions-local-docker

- Present

Fixed configuration behavior so the stage is resolved from provider configuration and falls back to legacy values when required.

- More robust configuration resolution while preserving legacy compatibility.



SKILLS

Backend Engineering

Claude Code High-traffic systems Event-driven architecture CQRS API design
Performance optimization Reliability & operations Incident response Post-incident analysis

Languages

PHP (7.1-8+) TypeScript JavaScript Node.js Python (3.8+)

Frameworks & Patterns

Laravel MVC DDD-style boundaries Unit & integration testing CI/CD

Data

PostgreSQL MySQL Redis MongoDB DocumentDB DynamoDB ElasticSearch
Materialized views Replication & sharding (concepts) Query optimization

Cloud & Infrastructure

AWS (IAM, S3, SQS, SNS, API Gateway, Step Functions)

Kubernetes

EKS

Docker

CloudWatch

Serverless

Quality & Delivery

CI/CD

GitHub Actions

Static analysis (PHPStan)

Code style (PhpCsFixer)

Jenkins

SonarQube

Trunk-based development

GitFlow

Observability & Incident Tooling

Sentry

Datadog (APM/Logs)

NewRelic

PagerDuty

CloudWatch



INTERESTS

Home Automation

HomeAssistant

Docker

WireGuard

Zigbee

Thread

IOT

ESP266

ESP32

NodeMCU