



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 Back-End Software Developer, Roofr

Apr, 2023 - Present

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.
- Triaged 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

● 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