

# Gustavo Andrés Cevallos Jaramillo

## Backend Web Developer + IA Engineer

+4 years of experience as a web developer, adapting technology to the needs of companies or SMEs. Offering effective, scalable, and robust solutions.

## Experiencia profesional

### Backend Developer · Clasing

Sep 2023 – Oct 2025 | Madrid, España

Online education platform with multiple products (Core, Academy, Fundae, internal dashboards) where the backend supports critical business operations, reporting, and analysis.

### Responsabilidades

- Development of backend functionalities with **NestJS + TypeScript**:
  - Implementation of use cases, **domain services**, **models/entities**, and **adapters**.
  - Refactoring of modules and services to improve readability, cohesion, and scalability.
- Design and optimization of **complex SQL** queries in **PostgreSQL**:
  - Metrics for courses, sessions, connection minutes, licenses, credit pools, and consumption.
  - Multi-table queries (wallets, licenses, transactions, stats) with a focus on performance and consistency.
- Creation of **key queries** and **views** for the **KAM** department:
  - Support for decisions on renewals, license usage, customer tracking, and internal reporting.
- Integration with data tools:
  - Use of **Snowflake**, **Metabase**, and **Cube** to build metrics, dashboards, and internal panels.
- **Automation with n8n**:
  - Design of flows for data synchronization, sending notifications, and recurring tasks.
  - Connection between backend, external services, and internal tools.
- Improvement of **code** and **infrastructure scalability**:
  - Review of patterns, modularization, and optimization of endpoints.
- Specific role of **DevOps in AWS**:

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- Support for deployments, Docker containers, and adjustments to pipelines/continuous integration.
- Technical support for other teams (KAM, product, operations) to understand data and system behavior.

### Notable achievements

- Design and implementation of a **new entity with auxiliary tables** to improve case traceability, reducing friction in critical business queries.
- **Construction of reporting queries** for Fundae and other modules, used daily by management and KAM.
- Implementation of **automations with n8n** that save manual time in repetitive reporting and synchronization tasks.
- Help develop in **ARI** a **IA** of Clasing, you can speak with them in **clasingelts.com**

## Backend & AI Engineer · Automation project for SMEs

(Beautician sector – Paula Nails)

2025 – Present | Madrid, España (Personal Project/ Freelance)

### Project objective

Customer manager + **appointment automation** system using **AI** and **MCP**, aimed at beauty salons, with an architecture ready to evolve into a **multi-sector SaaS**.

### Responsibilities and technical design:

- Design of a **modular** API in **NestJS**, with a **lightweight hexagonal** approach:
  - Separation between domain, application, and infrastructure.
  - Modules for clients, appointments, notifications, payments, and administration.
- Implementation of a **Tenancy system**:
  - Designed so that each sector (beauty, hairdressing, other services) has its own tables and logic.
  - **PostgreSQL** database prepared for multi-tenant.
- **MCP + IA** integration:
  - Automation of schedule proposals and agenda rearrangement.
  - Support for a **predictive agenda** and intelligent workflows for appointments.
- Design of a **backend-ready admin** panel for:
  - Customer management.
  - Appointment management (new appointments, changes, cancellations, reminders).
- Integration of communication channels:
  - Sending reminders before appointments via **WhatsApp** and **SMS** (designed to connect to APIs such as Twilio, etc.).

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- Payment integration:
  - Design of the payment flow with Stripe (online payments, advance bookings).
- Preparation of the system for **SaaS**:
  - Design of roles, permissions, onboarding of new centers, and scalability of the data model.

## Tech Stack

### Lenguajes

- TypeScript, JavaScript
- SQL (PostgreSQL, MySQL)
- Python (specific scripts, basic AI)

### Backend

- NestJS, Node.js
- Lightweight modular/hexagonal architecture
- Design of domains, use cases, services, models/entities.
- Integration with external services (third-party APIs, webhooks).

### Bases de datos y datos

- PostgreSQL (complex queries, indexes, performance optimization).
- Snowflake (reporting, metrics, analytics).
- Metabase, Cube (dashboards, aggregations, business metrics).

### Infraestructura y DevOps

- Docker
- AWS (despliegues, EC2, RDS básico)
- Git, GitHub, CI/CD básico

### Automatización e IA

- n8n (workflows, external integrations, process automation).
- AI/MCP integration with backend (model calls, process orchestration).

Notification system design (WhatsApp, SMS, email).

### Occasional frontend

- React, Next.js (support and minor adjustments).
- HTML/CSS for simple tweaks and layouts.

## Training and continuous learning

- **Continuous training (Udemy, Harvard, Oxford – AI, backend, and data)**
  - **Courses on:**
    - NestJS, Clean Architecture, DDD.
    - PostgreSQL / SQL Avanzado.
    - Snowflake / Data Analytics.
    - AWS, Docker, backend best practices.
    - AI with Python and LLM training (online courses from Harvard and Oxford).
- Self-taught learning through official documentation, technical blogs, and real projects.
- **IRONHACK (MERN TECHNOLOGY) - 2023**
  - App deployment with MERN technology, use of Git, and full stack development with projects.
- **DAW (IES AVELLANEDA) – 2021 - 2023**
  - Development and learning in all areas of specialization from testing to algorithms.
  - Advanced knowledge of **Ubuntu** and **Windows**.
  - Knowledge of ORACLE with real databases..
  - Basic knowledge of **Java**.

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## Idiomas

- Español: native.
  - Inglés: daily use in a technical environment (documentation, code, tools)
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## Otros datos

- Driver's license: B
- Interests: technology, AI, motorcycles, road trips, personal development.