

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.

Professional experience

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.).

- 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
 - Despliegue de app con tecnologia mern, uso de git y Desarrollo full stack con proyectos
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- DAW (IES AVELLANEDA) - 2021 - 2023
 - Desarrollo y aprendizaje en todas las areas de especialización desde testeo hasta algoritmia.
 - Conocimientos avanzados de **Ubuntu y Windows**.
 - Conocimientos en **ORACLE** con base de datos reales.

Idiomas

- Español: nativo
 - Inglés: uso diario en entorno técnico (documentación, código, herramientas)
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Other notes

- Permiso de conducir: B
- Intereses: tecnología, IA, motos, viajes por carretera, desarrollo personal.