

## Gerard Oms

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### Summary

Full Stack Developer with a special interest in backend development with Java and Spring Boot. My background in Telecommunications Engineering and Web Development combines a solid technical foundation with analytical thinking. Experienced in building internal applications with Angular and NestJS, I am eager to grow in agile environments where I can apply my knowledge of Java, databases, and microservices to deliver scalable solutions.

### Education

#### BIG school

Master in AI Development

Online  
June 2026 – Present

#### Progres a Formación

Higher-Level Technical Certificate in Web Application Development

Valencia, Spain  
2023 – 2025

#### Polytechnic University of Valencia

Studies in Telecommunications Engineering

Valencia, Spain  
2020 – 2023

#### La Salle Palma

High School Diploma (Scientific-Technological)

Palma, Spain  
2017 – 2020

### Experience

#### IP Network SA

Backend Developer

Valencia, Spain (Remote)  
September 2025 – Present

- Refactored and migrated legacy Node.js endpoints to a serverless Cloudflare Workers architecture, ensuring scalability for a critical incident mapping platform.
- Engineered dynamic search and filtering mechanisms for geospatial data, optimizing SQL queries to efficiently retrieve specific map points and list views based on user criteria.
- Enhanced application security by replacing hardcoded frontend credentials with a robust backend authentication system, decoupling the business logic from the client-side interface.

#### Avanta AG

Fullstack Developer

2024

Valencia, Spain (Remote)  
September 2023 – December

- Actively participated in the full software development lifecycle, collaborating on the design, implementation, and maintenance of robust architectures.
- Optimized frontend-backend communication, ensuring data integrity and a seamless user experience.
- Developed comprehensive full-stack web applications using Angular for dynamic, responsive interfaces and Node.js for efficient, scalable backend services.

**WEG Autrial  
Software Developer  
(Internship)**

Paterna, Spain  
March 2025 – June 2025

- Developed a full-stack internal application for secure, automated management of critical data, including a role-based authentication system, task scheduling, and hardware interaction.
- Interfaced with the operating system via Node.js for physical device management, developing a security mechanism to authorize only validated devices and deploy an offline visualization application to them.
- Gained experience in system-level operations with Node.js for hardware control, physical security layer design, and external device configuration, complementing backend skills in NestJS and frontend development in Angular.

**Projects**

**Personal Finance Platform  
(In Development)**

- Developing the **RESTful backend for a future full-stack application**. The current API implements JWT authentication and full CRUD operations for transactions and categories.
- **Technologies:** Java, Spring Boot, Spring Security, JPA, PostgreSQL, JWT, Maven.

**SaaS for Automated Backups  
(In Development)**

- A personal, non-confidential version of a professional backup system, currently in development to be a public, multi-tenant SaaS solution.
- **Technologies:** React, NestJS, MySQL, Redis, BullMQ, Google Drive API, JWT.

**AI Invoice Extractor  
(Python & Gemini api)**

- A Python application that automates data extraction from PDF invoices using the Google Gemini API. It stores the results in MySQL and generates an interactive dashboard with Streamlit.
- **Technologies:** Python, Google Gemini, MySQL, Pandas, Streamlit.

**Skills & Interests**

**Languages & Frameworks:** Java, Spring Boot, Hibernate, JavaScript, TypeScript, Angular, NestJS, React, Node.js, Python

**Databases:** SQL (PostgreSQL, MySQL), MongoDB

**DevOps & Tools:** Git, Docker, RESTful APIs, Microservices, JWT, Maven, CI/CD, Redis, BullMQ

**Other:** Agile Methodologies (Scrum), Serverless (Cloudflare Workers), Pandas, Streamlit

**Languages:** Spanish (Native), Catalan (Native), English (B2 Level)