

# CARLOS GÓMEZ

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## PERSONAL SUMMARY

Full Stack & IoT Engineer with experience developing end-to-end solutions using Python, JavaScript, SQL, and PHP. Skilled in building scalable web applications, interactive dashboards, and ETL pipelines. Currently completing a Master's in Big Data, expanding expertise in data management and analytics. Seeking opportunities as Full Stack Developer or Data Engineer/Analyst, leveraging strong problem-solving skills and an agile mindset to deliver impactful solutions.

## EXPERIENCE

### IoT Engineer and Full Stack Developer | MODI S.L

08/23 - Present

- Designed and developed scalable front-end applications using JavaScript, HTML, and CSS, ensuring responsive and user-friendly interfaces.
- Built and maintained back-end services and REST APIs with Python and PHP for seamless data processing and integration.
- Managed and optimized SQL databases, implementing ETL pipelines for data transformation and analytics.
- Created interactive dashboards and data visualizations to support business insights and decision-making.
- Delivered mockups and prototypes in Figma, collaborating with cross-functional teams under Agile methodologies (Scrum, Jira).
- Improved web application performance, applying debugging tools, best practices, and code optimization strategies.

### IoT Consultant Engineer | Cellnex Telecom

02/21 – 08/2023

- Led the end-to-end development of IoT solutions, from concept and design to deployment and optimization.
- Configured and integrated IoT communication networks (Sigfox, LoRa) to connect and monitor large-scale device infrastructures.
- Developed software modules and APIs to integrate new devices into the IoT value chain, ensuring scalability and interoperability.
- Built data pipelines and interactive dashboards for real-time visualization and analytics of IoT data, improving decision-making efficiency.
- Designed and delivered user-centered interfaces, enhancing usability and customer adoption.

## EDUCATION

### M.Sc. in Big Data Management and Analysis

03/2025

Universidad Europea Miguel de Cervantes (UEMC) – Valladolid

### B.Sc. in Computer Engineering

01/2021

Universitat Autònoma de Barcelona (UAB) – Bellaterra

## TECHNICAL SKILLS

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- **Programming Languages:** Python (Advanced), JavaScript (ES6+), PHP, TypeScript, SQL, HTML5, CSS3
- **Frameworks & Libraries:** React (in progress), Node.js (in progress), Bootstrap 5, Pandas, Scikit-learn
- **Databases & Data Engineering:** SQL (design & optimization), ETL pipelines, REST APIs, Data Visualization (Dashboards)
- **Tools & Methodologies:** GitHub, Jira, Docker, Figma, Agile (Scrum)
- **IoT & Connectivity:** Sigfox, LoRa, Device Integration, MQTT

## HIGHLIGHTED PROJECTS

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### Lighting Control System for Padel Courts – Complex Esportiu Torribera

Designed and implemented a full stack IoT solution based on LoRaWAN for remote control of padel court lighting (on/off and scheduling). Participated in the full project cycle: requirements analysis, platform design, backend APIs, database management, and user interface development.

*Technologies: LoRaWAN, Python, PHP, JavaScript (Vanilla), SQL, REST APIs, MQTT*

### IoT Platform for Energy Efficiency and Smart Building

Ongoing development of a data visualization and analysis platform for LoRaWAN device data, improving energy efficiency in smart buildings. Integrated with photovoltaic installations to collect, process, and monitor energy consumption data, including interactive dashboards for end-users.

*Technologies: LoRaWAN, Python, PHP, JavaScript (Vanilla), SQL, REST APIs, MQTT*

## LANGUAGES

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- Spanish: Native
- Catalan: Native
- English: Upper Intermediate (B2)