

Pablo Sierra



🌟 AI/GenAI
Engineer 🌟 PG in
Generative AI and
Applications (LLM) |
BSc in Computer
Engineer | BSc in
Biotechnology

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Open to remote work

622 33 01 97

Resume

Thinking of leaving my little mark on this world for others to benefit from.
Passionate about new artificial intelligence and LLM applications. Constantly learning,
exploring and making new projects.

Work experience

- AI/GenAI Engineer**
Since October 2024 **Trioteca** Barcelona, CT, Spain
Led design and implementation of complex **serverless RAG systems** and **audio transcription** services as **SaaS microservices**. Architected scalable **AWS serverless** solutions utilizing **SageMaker**, **Lambda**, and **API Gateway**.
Implemented **vector databases** for efficient **semantic search** capabilities. Applied advanced **LangChain** and **LlamaIndex** expertise to create sophisticated **generative AI workflows**. Conducted autonomous **research** in emerging AI technologies.
Established **CI/CD pipelines** via **GitHub** for efficient deployment. Optimized **embedder models** and **LLMs** for production performance. Managed complete **project lifecycles** while providing **technical leadership** on AI initiatives for third-party clients.
- Data Scientist Researcher**
2023 **Anaxomics** Barcelona
Analysis of pharmacokinetic data, **data mining**, **language models**, NER models, database creation, normalization, standardization, update pipeline, **predictive model** creation...
- Django Full Stack Development Instructor**
2023 **IP Informática Profesional** Remote
Constructed a robust eCommerce platform, imparting hands-on experience in user authentication, product cataloging, shopping carts, and secure payment gateways.
- Quantitative Analyst and Bot Programmer**
From 2021 to 2023 **Self-employed** Remote
Creation of automated trading bots & Quantitative analyst for clients.
- Private Lessons Teacher**
2021 **Self-employed** Remote
Programming and computer classes for university students
[Reviews](#)
- Chief Scientist**
2016 **CSIC (Consejo Superior de Investigaciones Científicas)** Madrid, MD, Spain
Stay at CSIC (CIAL) developing my research project.
Awarded as 2nd best project by INJUVE.
[See the paper here](#)

Personal Projects

🌟 **ConsultaBOE.es**
[ConsultaBOE.es](#) is a free platform that simplifies access to Spain's **Official State Gazette (BOE)**. It allows users to **search legal texts** using **natural language**, view **daily summaries** of the BOE, and access **official sources** for verification.
[Web](#)

🌟 **PlugTrader.co**
[PlugTrader.co](#) allows users to **create and deploy automated trading strategies** on **MetaTrader 5** without **programming** knowledge. It **includes tools** for strategy creation, validation, and portfolio management, with **free and paid options**.
[Web](#)

🌟 **DataWhisper: Agent-Based Architecture for Text-to-SQL**
DataWhisper: is a system that **converts natural language queries into SQL** using an **intelligent agent architecture**. The agents identify tables, generate, and run SQL queries, then deliver insights.
[Link](#)

FARMACODB: Automation of Data Extraction and Analysis
Automating **extraction and analysis** of pharmacokinetic data to build a comprehensive database and **predictive model** for drug half-life.
[Link](#)

DataPredictor: AI-Powered Data Analysis Tool
Data Predictor is a web app that **analyzes CSV data** with AI, allowing users to upload datasets, select target columns, and **get predictions**.
[Link](#)

Skills

DevOps

AWS - **Docker** - **Bash** ...and more...

AI/ML

LlamaIndex - **Langchain** - **AWS**
SageMaker - **AWS Bedrock** - **Qdrant** -
OpenAI - **Groq** - **TensorFlow** - **Pytorch** -
Pandas - **Seaborn** - **scikit learn** -
AutoGen ...and more...

Programming Languages

Python - **C** - **C++** - **Bash** - **Java** -
JavaScript ...and more...

Frontend & Backend

Django - **FastAPI** - **Vue.js** - **Bootstrap** -
Tailwind CSS - **HTML** - **NGINX** -
RabbitMQ - **MySQL** - **PostgreSQL** -
Redis - **SQLite** ...and more...

Others

Linux - **Git** - **GitHub** - **Postman** ...and more...

Education

- **Postgraduate degree in Generative AI and Applications (LLM)**
Since April 2024 **Aceleradora AI** Madrid
- **Double Degree in Computer Engineering and Biotechnology**
From 2018 to 2024 **URV** Tarragona
 - **ERASMUS** in Institut National des Sciences Appliquées (Toulouse)
 - **Computer Science** Specialization
- **Lean Startup | Escuela de Organización Industrial**
2018 **EOI** Madrid, MD, Spain
Team Building - Business Model Conceptualization - Problem Validation - Solution Validation - Creativity - Design thinking - General marketing - User experience
- **Certificate of Higher Education in Clinical and biomedical diagnostic laboratory**
From 2015 to 2017 **IES Moratalaz** Madrid

Certifications

- 🕒 (Currently) - **AWS Machine Learning - Associate (MLA-C01)**
Since February 2025 **Amazon Web Services (AWS)** Remote
- ✅ **AWS AI Practitioner (AIF-C01)**
From December 2024 to January 2025 **Amazon Web Services (AWS)** Trioteca
- ✅ **AWS Academy Cloud Developing**
From June 2023 to July 2023 **Amazon Web Services (AWS)** T-Systems
- ✅ **AWS Academy Cloud Foundations**
From June 2023 to July 2023 **Amazon Web Services (AWS)** T-Systems

Hard Skills

Enthusiasm to learn
+45 courses taken in *UDEMY* and *CODELY* and currently continuing
Highly organized and people skills
Creative

Languages

Spanish
Native

French
C1 (OLS) - B2 (DELF)

English
B2

Catalan
B1