



Galo Romero García

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Home: Sevilla (Spain)

ABOUT ME

Software Engineer and Geospatial Data Specialist with expertise in ETL workflows, SQL, Python, and database modelling. I have experience developing scalable data architectures and transforming complex datasets into actionable insights. Skilled in building robust, efficient solutions, I focus on enabling data-driven decision-making and delivering measurable results.

WORK EXPERIENCE

Nter Tech Services – Sevilla, Spain

Website: <https://nter.es/> | Name of unit or department: Data & BI - Business or sector: Professional, scientific and technical activities

Software Engineer

[09/2025 – Current]

Responsibilities include developing and maintaining database solutions, ensuring high data quality through structured validation processes within scalable workflows, and providing technical support to clients.

IdenCity – Spain

Website: <https://www.idencityconsulting.com/en/> | Name of unit or department: GIS - Business or sector: Professional, scientific and technical activities

Geospatial Data Engineer

[07/2025 – 10/2025]

- Build, process, and validate geospatial datasets across multiple spatial scales
- Design efficient and scalable ETL pipelines to transform and manage complex geospatial data
- Deliver reproducible Python workflows (GeoPandas, ORS) with fully documented code
- Develop accessibility isochrones for urban facilities using population-based criteria
- Produce high-quality geospatial outputs to support informed spatial planning and decision-making

Ministerio de Ciencia, Innovación y Universidades – Spain

Website: <https://www.ciencia.gob.es/> | Business or sector: Professional, scientific and technical activities

Geospatial Data Engineer

[12/2021 – 04/2025]

- Development of relational databases using PostgreSQL
- Creation and implementation of web mapping applications with Leaflet
- Generation and management of RDF and INSPIRE-compliant metadata
- Design and maintenance of online databases using Bootstrap Table, HTML5, and CSS3
- Statistical and spatial analysis using the R programming language
- Data management and analysis with Pandas and NumPy in Python
- Spatial data processing with GeoPandas in Python

- Data visualisation using Matplotlib and Seaborn in Python
- Large-scale data processing in Snowflake using advanced SQL, with a focus on cleaning, transforming, and efficiently modelling datasets
- University teaching experience in Computer Applications and Statistics

EUROPEAN COMMISSION – Spain

Website: https://commission.europa.eu/index_en | Business or sector: Professional, scientific and technical activities

Geospatial Data Engineer

[10/2020 – 11/2021]

The project aims to convert archaeological data from the Iberian Peninsula into a Spatial Data Infrastructure (SDI) in compliance with the European Union's INSPIRE interoperability guidelines.

The development of the SDI includes the following activities:

- Design of a Spatial Data Infrastructure (SDI)
- Database processing and modelling, including data cleansing and organisation
- Design and integration of the database model: After processing and standardising the data, developed the data model that supports and feeds the geoportal
- Design and implementation of a relational database model to handle complex and large-scale datasets
- Integration of alphanumeric and geographic data in PostgreSQL/PostGIS databases, and processing of spatial information using Geographic Information Systems (GIS)
- Design and development of the geoportal and various internal tools for data consumption and visualisation
- Testing and validation of the overall system functionality
- Data organisation, analysis, processing, and normalisation
- Implementation of routines and automation of network analysis using the SoNIA library in R, and the development of Shiny applications for network analysis, geovisualisation tools (geo-viewers), and database interaction

Evenor-Tech – Spain

Website: <https://evenor-tech.com/> | Name of unit or department: GIS - Business or sector: Professional, scientific and technical activities

Geographic Information Systems (GIS) Technician

[01/2020 – 06/2020]

Participation in the CONSOLE project (Contract Solutions for Effective and Lasting Delivery of Agri-Environmental-Climate Public Goods by EU Agriculture and Forestry).

- Performed statistical analyses using SPSS and R
- Prepared and wrote scientific and technical reports
- Conducted spatial analysis and mapping using ArcGIS and QGIS
- Managed and maintained databases, ensuring data accuracy and accessibility
- Supported project development through the research and analysis of bibliographic references

Ministerio de Educación y Formación Profesional – Spain

Website: <https://www.educacionfydeportes.gob.es/ministerio.html> | Business or sector: Professional, scientific and technical activities

Geographic Information Systems (GIS) Technician

[09/2019 – 06/2020]

- Digitised and mapped protected natural areas in Andalusia (Spain) using GIS platforms such as QGIS and ArcGIS

Geographica - CARTO – Spain

Website: <https://carto.com/> | Name of unit or department: GIS and web development - Business or sector: Professional, scientific and technical activities

Geographic Information Systems (GIS) Technician

[03/2019 – 07/2019]

Participation in the URBAN AUDIT project:

- Edited, corrected, and updated spatial data files in various formats using GIS software
- Managed and analysed spatial databases using SQL for geospatial data extraction and processing

EDUCATION AND TRAINING

MSc in Geography

Universidad de Sevilla [10/2019 – 07/2020]

Address: 41004 Sevilla (Spain) | **Website:** <https://www.us.es/> | **Field(s) of study:** Geospatial Technology

Master's degree in Geographic Information Systems (GIS), focused on spatial database design, management, and geospatial data analysis. Skilled in geo-dissemination through the development of web-based GIS services and clients for interactive geospatial visualization.

BSc in Geography

Universidad de Sevilla [09/2015 – 07/2019]

Address: 41004 Sevilla (Spain) | **Website:** <https://www.us.es/> | **Field(s) of study:** Geospatial Technology

Bachelor's degree in Geography and Geographic Information Systems (GIS), with an emphasis on spatial database development and SQL-based geospatial data analysis and visualization.

SKILLS

Database Administration / PostgreSQL / pgAdmin / Data Modeling / DBeaver / Data Governance / Distributed Computing / Apache Spark / Data Pipeline Development / PySpark / DuckDB / Snowflake / Visual Studio Code / Geospatial Data Engineering / GeoPandas / ArcGIS / QGIS / PostGIS / Leaflet / SQL Optimization / Oracle SQL Developer / Python for Data / Pandas / NumPy / Matplotlib / Plotly / Jupyter Notebook / R for Data Analysis / RStudio / ggplot2 / shiny / NoSQL Databases / MongoDB / Shell Scripting / Bash / Semantic Web Technologies / Semantic Metadata / Metadata Management / Technical Documentation / Data-Driven Decision Making / Version Control / Git / GitHub / Team Collaboration

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DRIVING LICENCE

Driving Licence: B