RICARDO GARCIA SILVA

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SUMMARY

Software developer, trainer, traveler
I love to build useful software that enables spatial interactions

EXPERIENCE

Senior Software Engineer, Kartoza
https://kartoza.com
2020 − 2022
Worked on multiple GIS projects, dealing with both web and Desktop-based platforms. At Kartoza I also served as team lead, being responsible for overseeing multiple aspects of project development and delivery, from design and planning to development, to managing communications with the client and delivery.

Used tools such as QGIS, GeoNode, PostGIS, GeoServer and other components of the FOSS GIS stack.

Founder, likeno
http://likeno.pt/
2019 − 2020
Founded Likeno, a software company that specializes in spatial data storage, processing and delivery.

Designed and implemented web APIs and data processing pipelines to generate meteorological products. Used tools such as docker, Mapserver and PostGIS.

Senior Software Engineer, GeoSolutions
https://www.geo-solutions.it/
2017-2019
Designed and implemented data processing pipelines, web APIs and websites for multiple projects. Dealt with both raster and vector based data and used tools such as django, airflow, GeoServer and GeoNode.

Technical Trainer, naturalgis
https://www.naturalgis.pt/
2016 − Now
I am the creator and trainer of a training course on developing for QGIS with Python. I usually do about two to three sessions per year for an audience of professionals from all sectors of the industry.

These training courses are done in collaboration with NaturalGIS, of which I am a regular collaborator, working on a freelance arrangement.

Staff Software Engineer, IPMA Remote Sensing team
https://www.ipma.pt/en/
2009 − 2017
Designed and implemented processing workflows for transforming satellite based imagery into data products. Most components made with Python. Implemented a data dissemination system based on OGC standards.

Core open source contributor, pycsw
https://pycsw.org/
2016 − 2018
Enhanced pycsw's automated testing infrastructure by implementing tests with pytest and adding code coverage metrics and analytics.

Technical Coordinator, IPMA SNIMar team

http://snimar.pt/

2014 − 2015

Designed the technical infrastructure that would serve as the basis for the SNIMar EEA grants project. The devised architecture involved a set of OGC CSW catalogues being harvested by a central node and a public facing geoportal that surfaced datasets with OGC WMS.

EDUCATION

Certified Trainer – Portuguese Institute for Work

2016

I am a certified trainer by the Portuguese Institute for Work and Professional Training. I've put this certification to work by designing and teaching several training courses on GIS and programming throughout my career.

Post Graduate in GIS – University of Lisbon

https://www.ulisboa.pt/en

2008

Environmental Engineer – New University of Lisbon

https://www.fct.unl.pt/en

2000 − 2006

LANGUAGES AND TECHNOLOGIES

Python – django, flask, sqlalchemy, lxml, gdal/ogr, rasterio, fiona, shapely, numpy, xarray, airflow

Linux systems administration – operating system, web servers, databases, logging

Docker – containers and swarms

CI/CD – git, automated testing and deployment

AWARDS

2nd place in the Ubuntu Touch Scopes Showdown

2016

Developed a scope in javascript for interacting with the freesound.org website using an ubuntu phone