

RICARDO GARCIA SILVA

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<https://ricardo-garcia-silva.com>

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

EXPERIENCE **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.

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