



RUBIERE RAMIREZ

Geospatial Developer | Spatial
Data Engineer

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► EDUCATION

MSc in Geographical
Information Science and
Systems (In Progress),
Paris Lodron University
of Salzburg, Austria
2027

BSc in Natural Resource
Management
University of Belize,
Belize
2014

► SKILLS

R, R-Spatial, Python,
GeoPython, SQL, Spatial
SQL, QGIS, ArcGIS Pro,
Spatial Data Science,
Data Engineering,
Remote Sensing, Earth
Observation, PostgreSQL
PostGIS, OSGeo
Geoserver, Web GIS,
Geovisualization and
Geocommunication

► LANGUAGES

English

Spanish

► PROFILE

A geoinformatician with over seven years of experience in proprietary geographic information systems (GIS), free and open-source GIS, spatial data programming, spatial database management, remote sensing, earth observation, and spatial data engineering.

► WORK EXPERIENCE

Geographic Information System Assistant

Statistical Institute of Belize, Bemlopan City, Belize | 2022 - Present

Administer and maintain Enterprise GIS, spatial databases, services, Web GIS applications and perform earth observation on the built environment.

- Develop, administer and maintain spatial databases on PostgreSQL database with PostGIS extension.
- Develop, administer and maintain web applications on free and open-source software for geospatial (FOSS4G): GeoServer & Mapstore2; and on commercial off-the-shelf (COTS) software: Portal for ArcGIS & ArcGIS Server, Oracle Application Express.
- Create Sentinel-2 Geomedian of Belize with Google Earth Engine and classify urban areas with machine learning in Python.
- Develop tools to automate tasks and to standardize the extraction, transformation and loading of non-spatial data and spatial data into SIB's spatial data repositories with SQL, R, and Python.

Geographic Information System Technician

Statistical Institute of Belize, Bemlopan City, Belize | 2018– 2022

Create spatial data using front-end geospatial software and produce maps.

- Heads-up digitized building footprints for the entire country of Belize.
- Perform remote sensing techniques to detect changes in urban areas in QGIS.
- Process aerial photos from drone imagery in QGIS and ArcGIS Pro.

Geographic Information System Technician

Statistical Institute of Belize, Belize City, Belize | 2017– 2017

Assist CZMAI with data creation and field data collection.

- Heads-up digitized and updated building footprints for Caye Caulker using Google Earth Pro and existing building footprints.
- Assisted with the collection of land use and building information in Caye Caulker using Open Data Kit for android devices.