



# RUBIERE RAMIREZ

Geoinformatics Professional

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 19 Barton Creek Street, Belmopan City, Belize





## SUMMARY

A geoinformatics professional with over five years of experience in proprietary geographic information systems, free and open-source geographic information systems, spatial data programming, spatial database management, earth observation, and spatial data engineering.

## EXPERIENCE

### Geographic Information System Assistant

#### Statistical Institute of Belize



 September 2022 - Present  Belmopan, Belize

Administer and maintain Enterprise GIS, spatial databases, services, and Web GIS applications.

- Administer and maintain spatial databases on PostgreSQL database with PostGIS extension.
- 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.
- Create tools to automate and standardize the extraction, transformation and loading of non-spatial data and spatial data into SIB's spatial data warehouse.

### Geographic Information System Technician

#### Statistical Institute of Belize

 2018 – September 2022  Belmopan, Belize

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

- Perform Earth Observation Remote Sensing Techniques to detect changes in urban areas.
- Process aerial photos from drone imagery in QGIS and ArcGIS Pro.
- Automate the generation of spatial data with R programming language using OGC Standards.

### Geographic Information Systems Technician

#### Coastal Zone Management Authority and Institute of Belize

 May 2017 – June 2017  Belize City, Belize

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.

## EDUCATION

### B.Sc. in Natural Resource Management

#### University of Belize

 2012 – 2014  Belmopan, Belize


## SKILLS

R 

Python 

ArcGIS Pro 


QGIS 

Data Engineering 

Earth Observation 

PostgreSQL 

FOSS4G GeoServer 

Geovisualization and  
Geocommunication with  
Web GIS (Mapstore2) 

## ACHIEVEMENTS

✓ **Enterprise GIS in FOSS4G**  
Developed and implemented an Enterprise Geographic Information System infrastructure exclusively with free and open-source software for geospatial: QGIS and PostgreSQL Database with PostGIS extension.

✓ **Web GIS in FOSS4G**  
Deployed and maintained Open-Source GeoServer and Mapstore2 with Apache Tomcat on Apache HTTP Server on SIB's GIS Servers.

✓ **GIS Web Application for Census Progress Tracking**  
Geovisualized census progress coverage by creating a web application using open standards: Mapstore2 web app created using GeoServer, PostgreSQL database with PostGIS extension and ETL process automated with R programming.