




# RUBIERE RAMIREZ

Geoinformatician

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 19 Barton Creek Street, Belmopan City, Belize





## SUMMARY

A geoinformatician with over five years of experience in proprietary geographic information systems, free and open-source geographic information systems, spatial data programming, spatial database management, remote sensing, 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 (ETL) of non-spatial data and spatial data into SIB's spatial data repositories.

### 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 and Remote Sensing | PostgreSQL | PostGIS | FOSS4G GeoServer | Geovisualization and Geocommunication with WebGIS

## 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.

✓ **Web GIS Development: Full-Stack PERN Application**  
Built and maintained PostgreSQL, Express, React, Node.js geoportal to geovisualize the Statistical Institute of Belize's spatial data.

✓ **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.

✓ **Created {rvr2spatial}**  
A package in R Programming to extract, transform, load data from MariaDB to PostgreSQL PostGIS.