



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.