



RUBIERE RAMIREZ

Geoinformatics Professional

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 19 Barton Creek Street, Belmopan City, Belize





PROFILE

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.

EMPLOYMENT HISTORY

Geographic Information System Assistant,



Systems Development and Data Processing,
Statistical Institute of Belize.

 September 2022 - Present  Belmopan, Belize

- Supervise the GIS Technician and Data Processing Technicians.
- 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.
- Administer and maintain web applications on commercial off-the-shelf (COTS) software: Portal for ArcGIS and ArcGIS Server.
- Create spatial features using R programming language using Open Geospatial Consortium (OGC) Standards.
- Create tools to automate and standardize the extraction, transformation and loading of non-spatial data and spatial data into SIB's spatial data warehouse.
- Provide training and support to the GIS Unit and other departments at the Institute.

Geographic Information System Technician,

Systems Development and Data Processing,
Statistical Institute of Belize.

 2018 – September 2022  Belmopan, Belize

- Heads-up digitizes building footprints in ArcGIS suite of products and QGIS from Google Earth Pro and Environmental Systems Research Institute's World Imagery, Bing Maps, Open Street Maps, Satellite for Observation of Earth 7.
 - Provide both digital web maps and hard copy maps for different departments at the Statistical Institute upon request.
 - Perform Earth Observation Remote Sensing Techniques to detect changes in urban areas.
 - Process aerial photos from drone imagery in QGIS and ArcGIS Pro.
 - Assist with the preparation of Enumeration District Maps for the 2022 Population and Housing Census.
 - Assist with the creation of maps in the SIB Census Dashboard with R programming and RStudio.
 - Perform quality assurance and quality control on census spatial field data collected using ArcGIS, QGIS and R Programming.
 - Automate the generation of spatial data with R programming language using OGC Standards.
 - Implement Row level and column level security with table views on PostgreSQL database with PostGIS Extension.
 - Implement Geofence, Geofence Data Rules and Geofence Admin Rules on Open-Source GeoServer.
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Geographic Information Systems Technician,
Coastal and Marine Data Centre,
Coastal Zone Management Authority and Institute of Belize.

📅 May 2017 – June 2017 📍 Belize City, Belize

- Implement Row level and column level security with table views on PostgreSQL database with PostGIS Extension.
- Updated building footprints for Caye Caulker using Google Earth Pro and existing building footprints data.
- Prepare maps for ground-truthing in Caye Caulker using updated building footprints and parcel data provided by the Land Information Center, Ministry of Natural Resources.
- Assisted with the collection of land use and building information in Caye Caulker using Open Data Kit for android devices.
- Processed data obtained from the open data kit for Caye Caulker using the building footprints Urban Land Use Data Processing Manual standardized by the Land Information Center at the Ministry of Natural Resources.

Stann Creek Field Representative,
Oceana in Belize.

📅 2015 – 2016 📍 Stann Creek, Belize

- Represented Oceana Belize in the Stann Creek district with the public, community-based organizations, non-governmental organizations, and the business sector.
- Conducted presentations about Oceana in Belize at the Primary, Secondary and Tertiary level as well as to the community and business sector in the district.
- Canvassed neighborhood in the district with regards to their opinion on offshore oil exploration and exploitation in Belize as well as collect signatures against offshore oil.
- Recruited wavemakers (volunteers) in the district.
- Maintain and update a wavemaker database for the district.
- Organized public events in the district such as beach cleanups, mural unveiling, people’s referendum anniversary event, among others.
- Procured vendors for projects, provided logistics and reached out to the community for the events.

EDUCATION

B.Sc. in Natural Resource Management University of Belize	📍Belmopan City, Belize 2014
Associate in Natural Resources Management University of Belize	📍Belmopan City, Belize 2011
Associate in Arts St. John’s College Junior College Majors: General Studies & Chemistry	📍Belize City, Belize 2009
High School Diploma St. John’s College High School Concentration: Biology, Chemistry and Physics.	📍Belize City, Belize 2007

SKILLS

R	●●●●●	ArcGIS Pro	●●●●●
Python	●●●○○	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.

PROFESSIONAL DEVELOPMENT

- **Strengthening the capacity of the Geographic Information System Unit at the Statistical Institute of Belize for the management of spatial databases, statistical spatial analysis, and remote sensing applications**, Facilitated by the Mexican Agency for International Development and Cooperation (AMEXCID) and the National Institute of Statistics and Geography (INEGI), 7th – 9th August 2023.
- **III Workshop on the use of Big Data for Official Statistics**, Facilitated by the United Nations Big Data Regional Hub in Brazil, United Nations Statistics Division, Brazilian Institute of Geography and Statistics (IBGE), National Administrative Department of Statistics (DANE) Colombia, National Institute of Statistics (INE) Paraguay, 31st July, 2nd August and 4th August 2023
- **Caribbean Geospatial Webinar – End User Training**, Facilitated by the Caribbean Community Climate Change Centre and Caribbean Development Bank, September 2021.
- **Advance Spatial Data Analysis Using ArcGIS**, Facilitated by the Belize National Spatial Data Infrastructure, Ministry of Natural Resources and Total Business Solutions Ltd, October 2018.
- **Creative Communications Training**, Facilitated by ArcCorps, May 2015.
- **Leadership Training for Social and Environmental Justice**, Facilitated by the Belize Institute of Environmental Law and Policy, August 2014.

REFERENCES

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