Eduardo **Rojas Rodríguez**

GEOGRAPHER · GIS EXPERT · GEOSPATIAL DATA SCIENCE · MACHINE LEARNING · CLOUD · PROFESSOR

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"Be the change you want to see in the world"

Education

UCR (Universidad de Costa Rica)   *Montes de Oca, Costa Rica*
MASTER DEGREE ON HOUSING AND URBAN DEVELOPMENT GRADUATE STUDIES IN ARCHITECTURE   *2015 - 2021*
- Graduate in Architecture

UCR (Universidad de Costa Rica)   *Montes de Oca, Costa Rica*
DEGREE IN GEOGRAPHY   *2015 - presente*
- Undergraduate student at the School of Geography.

UCR (Universidad de Costa Rica)   *Montes de Oca, Costa Rica*
BACHELOR'S DEGREE IN GEOGRAPHY   *2009 - 2015*
- Graduate of the School of Geography

Skills

Cloud	Microsoft Azure
Back-end	PostgreSQL - PostGIS, GeoServer, MapBender, Ubuntu Server
Software	QGIS, GRASS, SAGA, OpenDroneMap, GeoDa, QFiled, LimeSurvey, ArcGIS Online, Moodle
Programming	Python, PyQGIS, SQL, LaTeX
Machine learning	Python, Scikit-learn, Tensorflow, Keras, XGBoost, Streamlit, OpenAI, Pandas, GeoPandas, SciPy, PySAL
Languages	Español (Nativo), English (Full professional proficiency), Frances (Elementary)
Soft-skills	Communication, Critical Thinking, Teamwork

Experience

Universidad de Costa Rica   *Montes de Oca, Costa Rica*
PPROFESSOR, MASTER IN GIS   *First Semester 2023*
- Professor of Course PF-0903 Spatial Database Design and Exploration

SOLTIG S.A.   *Alajuela, Costa Rica*
LEAD GEOSPATIAL DATA ANALYST   *2019 - present*
- Geographic Information Systems (GIS) Administrator.
- Data apps and dashboards developer with Streamlit.
- Spatial Database Administrator in Microsoft Azure. Database for PostgreSQL.
- Microsoft Azure Administrator.
- Professor of courses of: Free GIS (QGIS), ODM, Geostatistics, PyQGIS, Image classifications, Spatial Data Infrastructure. (PostgreSQL / PostGIS GeoServer).
- Solutions Architect.
- Commercial support technician for projects and sales of solutions. solutions.
- Innovation Manager.

SOLTIG S.A.   *Alajuela, Costa Rica*
GIS ANALYST   *2016 - 2019*
- Geographic Information Systems (GIS) Administrator.
- Instructor of courses of: Free GIS (QGIS), ODM, QFiled, Geostatistics, Image processing, Spatial Data Infrastructure. (PostgreSQL / PostGIS GeoServer).
- Technical sales support for projects and solutions. solutions.

Projects

CONARE: Electoral Geography

Countrywide, Costa Rica

Lead Geospatial Data Analyst

2023

- Development of the data analysis model with PySAL.
- Exploratory analysis of spatial data.
- Analysis of spatial autocorrelation of electoral data. with I de Mora Local.
- Creation of maps for CONARE's State of the Nation Report 2023.

CCSS Hospital Mexico: Database development and spatial data analysis

Countrywide, Costa Rica

Lead Geospatial Data Analyst

2023

- Development of ETL process for the integration of multiple data sources.
- Data warehouse and data wrangling.
- Processing of 6 million infectious disease outcome data.
- Spatial analysis of 6 million data from all H. Mexico laboratory tests to discover epidemiological trends. to discover epidemiological trends and infection foci from 2005 to 2021. from 2005 to 2021.
- Development of dashboard with Power BI and QGIS for data analysis by H. Mexico physicians. by the physicians of H. Mexico.
- Presentation of results to the research committee of the Centro de Strategic Development and Information in Health and Social Security.

CNFL Communication Perception Study

GAM, Costa Rica

Leading Data Analyst

2022

- Methodological design of the project.
- Quality assurance.
- Spatial data analysis using QGIS.
- Development of QGIS course for CNFL.
- Support for the development of a dashboard with PowerBI for the use of CNFL personnel.

IFAM: Expansion and improvement of the Active Mobility Index (AMI) capabilities

Moravia, Costa Rica

Leading Development Technician

2021

- Creation of the cartographic viewer backend.
- Web maps development with MapBender.
- ETL tasks for data integration between GIS and IMA.
- Training in the use of the platform.

Programs and Certifications

Microsoft Certifications

Microsoft

Microsoft Certified: Azure Fundamentals

2023

- Foundational knowledge of cloud concepts in general and Azure in particular.
- Describe cloud concepts
- Describe Azure architecture and services
- Describe Azure management and governance

LinkedIn

LinkedIn Learning

Getting started with Python

2023

- Datas structures.
- Software Development.
- Python.

Texas Tech University

Texas Tech University - Costa Rica

Machine Learning Certificate 6.0 CU

2021

- Machine Learning Fundamentals: Python and Scikit-Learn.
- Deep Learning: Deep Neural Networks with TensorFlow and Keras.
- Natural Language Processing: TensorFlow and NLTK.
- Unsupervised Machine Learning: Scikit-learn and TensorFlow.
- Reinforcement Learning: TensorFlow, OpenAI GYM and TF-Agents.

Practical Training Program in Market-Oriented Innovation

UTN Costa Rica - University of Leipzig Germany

Innovation Manager

2020

- Specialization program in Market Focused Innovation.
- Market-focused innovation specialization program.
- Training in the leadership of Innovation Projects and Processes. and Innovation Processes.