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"

Experience

Professor, Master in GIS   *Montes de Oca, Costa Rica*

UNIVERSIDAD DE COSTA RICA   *First Semester 2023*

- Professor of Course PF-0903 Spatial Database Design and Exploration

Lead Geospatial Data Analyst   *Alajuela, Costa Rica*

SOLTIG S.A.   *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.

GIS Analyst   *Alajuela, Costa Rica*

SOLTIG S.A.   *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.

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

Education

Master degree on Housing and Urban Development Graduate Studies in Architecture   *Montes de Oca, Costa Rica*

UCR (UNIVERSIDAD DE COSTA RICA)   *2015 - 2021*

- Graduate in Architecture

Degree in Geography   *Montes de Oca, Costa Rica*

UCR (UNIVERSIDAD DE COSTA RICA)   *2015 - presente*

- Undergraduate student at the School of Geography.

Bachelor's Degree in Geography   *Montes de Oca, Costa Rica*

UCR (UNIVERSIDAD DE COSTA RICA)   *2009 - 2015*

- Graduate of the School of Geography

Projects

Lead Geospatial Data Analyst
Countrywide, Costa Rica

CONARE: ELECTORAL GEOGRAPHY
2023

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

Lead Geospatial Data Analyst
Countrywide, Costa Rica

CCSS HOSPITAL MEXICO: DATABASE DEVELOPMENT AND SPATIAL DATA ANALYSIS
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.
- Development of dashboard with Power BI and QGIS for data analysis by H. Mexico physicians.
- Presentation of results to the research committee of the CENDEISS (Centro de Desarrollo Estratégico E Información en Salud y Seguridad Social).

Leading Data Analyst
GAM, Costa Rica

CNFL COMMUNICATION PERCEPTION STUDY
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.

Leading Web Mapping Developer
Moravia, Costa Rica

IFAM: EXPANSION AND IMPROVEMENT OF THE ACTIVE MOBILITY INDEX (AMI) CAPABILITIES
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 Certified: Azure Fundamentals
Microsoft

MICROSOFT CERTIFICATIONS
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

Getting started with Python
LinkedIn Learning

LINKEDIN
2023

- Datas structures.
- Software Development.
- Python.

Machine Learning Certificate 6.0 CU
Texas Tech University - Costa Rica

TEXAS TECH UNIVERSITY
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.

Innovation Manager
UTN Costa Rica - University of Leipzig Germany

PRACTICAL TRAINING PROGRAM IN MARKET-ORIENTED INNOVATION
2020

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