



EDUARDO PADRON

Data/Cloud Engineer

ACHIEVEMENTS

- Winner of the TensorFlow Microcontroller Challenge, with ML movement model for Mapping with dance Movements. Google (2021).
- Data Camp Portofolio Challenge (2023).
- 1st place UBSA Human Excellence and Social Responsibility award. Guanajuato, Mexico (2018).
- Municipal youth award of the government of the city of Guanajuato. Guanajuato, Mexico (2018).

CERTIFICATIONS/TRAINING

- English C1 TOEFL ITP
- Python Professional
- Professional SQL (Currently taking)
- Data Science Bootcamp
- Advanced Data Science Bootcamp
- Data Engineering Bootcamp
- Open Data and Civic Hacking Course
- Edx Analyzing Data with Excel
- WOBI in leadership Medellin, Colombia

DATA STACK

- | | | |
|----------------|--------------|--------------|
| - PySpark | - AWS | - Azure (AI) |
| - Git | - Excel | - Power BI |
| - RESTful APIs | - Tensorflow | - DAX |

GET IN TOUCH WITH ME

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Portfolio: portfolio/iotalchemist

WORK EXPERIENCE

Data Engineer

Grupo Catalyst -Traxion | September 2023 - Present

- Designed, built, and managed data pipelines using AWS Redshift, Glue, and Lambda to support data analysis for a Mexican transnational company.
- Extracted data from various sources including PostgreSQL, MySQL, SAP, and Salesforce to the AWS Data Lake for ETL and data pipelines.
- Collaborated with data scientists and analysts to understand and address data requirements within the AWS environment, fostering a cross-functional approach to data-driven decision-making.
- Managed data migration, transformation, and cleaning processes using AWS services, ensuring the integrity and quality of data for analysis.
- Configured AWS pipelines to efficiently transfer extracted data to Power BI for visualization and reporting purposes.

Jr Data Engineer

Ploomber | Sep 2023 - Nov 2023

- Ploomber team guidance to develop a production-ready project using Data Engineering (ETL pipelines with SQL and Python) for Data Analysis, Storytelling, and Visualization

Data Manager (Data Engineer)

City Cancer Challenge | August 2021 - June 2023

- Monitor quality of needs assessment data inputted using pre-defined indicators.
- Support development of needs assessment summary reports and analytics using C/Can data platform.
- Facilitate discussions around data management and analysis with local stakeholders.
- Overall support throughout the needs assessment data project in 3 cities from different countries to ensure data completeness, accuracy, quality, standardizing reporting, data insights and data visualisation as outlined in the C/Can Responsible Data Framework .
- Played a key role in data collection, analysis, and visualization by integrating data from distinct databases using SQL.
- Gathered information from diverse sources, to create visually compelling and interactive dashboards, providing stakeholders with intuitive insights into critical areas of cancer care. Utilized data visualization tools and techniques to present complex information in a user-friendly manner, enabling informed decision-making and fostering a deeper understanding of the data.

PATENTS

-Motorized 3/4 pressure regulating valve
(Pending)

PREVIOUS EDUCATION

Future Lab

- Community member | 2017 - present
(Guanajuato, Mexico) Technological community
focused on scientific and technological
innovation, project development, organization
of events and educational initiatives.

Bricolabs

- Community member 2019 - present (A
Coruña, Spain) Community focused on
designing and collaborating with the Open
Source movement, the ethics of DIY and the
culture of development in free technologies.

WORKSHOP INSTRUCTOR

- Developed and implemented workshop for
Science Clubs International to teach AI as a tool for
sustainable development with Python.(Highschool
students)
- Electronics with art workshop for kids at
OSHWDem by Bricolabs(Spain)

Junior Machine Learning Engineer

Omdena - Dryad | September 2021 - November 2021

- Implemented a complete pipeline for detecting forest fires applying
supervised machine learning techniques. The Python pipeline included
Data Analysis for Anomaly Detection, Data Quality check and
Preprocessing modules, training and inference of multiple
Classification models and further deployment in Docker containers.

IoT Engineering/ Data Scientist (Investigation Role)

Universidad de Guanajuato | January 2018 - December 2021

- Implemented an automated irrigation project with open source
platforms, reducing input time by 80+% and work by 70%.
- Utilized SQL, Python, and MQTT to automate and enhance data
processing, visualization, and real-time analysis for an automatic
irrigation system. Conducted extensive testing and validation to ensure
the accuracy and reliability of the data processing pipeline, resulting in
a system's response time boost of 50+% and achieving optimal
performance and efficiency.
- Architected and implemented a platform for Data Collection to satisfy
reporting, data science, and analytics needs.
- Supervised the design and development of new data warehouses.
- Created 3D printing tools and fixtures to reduce costs and enable
scalability.

PREVIOUS EDUCATION

Universidad de Guanajuato

Master in Water Sciences graduated in 2021

Bachelor in Hydraulic Engineering graduated in 2018

- Technological community coordinator (2019-2020)
- Patent development (2018-2020)

Universidade da Coruña

Master research data and IT internship in 2019

CITEEC (Technological innovation center in construction and civil
engineering) and CITIC (Information and communication technology
research center) .

- Reduced cost and time of installation by 50% through the wireless
communication and design improvements of an automated gate valve.

BINATIONAL ACADEMIC PROJECTS

-Contemporary issues in water resources U.S - Mexico water, food
energy nexus. Texas A&M University/University of Guanajuato.
(2017).

-U.S.-Mexico Bidirectional study abroad program in water supported
by 100,000 strong in America's. Gateway Community
College/University of Guanajuato(2017).

-2nd International workshop on hydrologic and hydrogeochemical
processes in inter-montane Basins. Texas A&M University, College
Station, Texas, EE. UU. 2019.