

Artemio Santiago Padilla Robles

Tech Developer and Systems Creator.

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EXPERIENCE

MLOps and Automation Engineer Sr - Círculo de Crédito

Aug 2022 - Currently

Started MLOps area in the company.

Mexico City

- Created SageMaker Studio environment for model development as IaC.
- Implemented First Continuous Training Pipelines of the company.
- In charge of automatizing all processes within the company data platform.
- Created Multiplatform (SageMaker and On-Premises) ML Component template to be able to serve both batch and online requests.
- Participated in the productization of 5+ ML Models, including the no-hit credit score model.
- SageMaker and Airflow Admin.

Data Engineer Jr - Círculo de Crédito

Aug 2022 - Dic 2023

In charge of automation of the company data platform.

Mexico City

- Modeled the company's processes and data assets into a Knowledge Graph.
- Created an Airflow DAG factory to materialize DAGs from Knowledge Graph
- Designed and implemented a process to clean 80M of registries in the company Person table.

Search Engine Evaluator – Google via Appen

Sep 2019 - July 2022

Evaluator of information quality and query fulfillment at Appen. Remote job in English.

Mexico City

- Evaluated the quality of internet information to improve user satisfaction for Google's project.
- Investigated and evaluated companies and information sources according to Google's information quality criteria.
- Work quality superior to the 80% of all search engine evaluators.

Laboratory Research Assistant – UNAM

Jan 2017 - Sep 2020

Collaborated in the Nanosciences Laboratory of the Physics Institute

UNAM

- Worked in the research and development of a modular optical system to implement Raman-enhanced spectroscopy techniques.
- Implemented quantum optical instrumentation alongside a scanning probe microscope for nano-scale experiments.
- Published a peer-reviewed scientific paper: [Determination of the Chemical Composition of Lithium Niobate Powders - Crystals Magazine, 2019.](#)

PROJECTS

Portfolio Management Strategy Simulator [↗](#)

Jun 2022

Created a simulator of portfolio management strategies using ranking functions for asset selection.

Machine Learning And COVID [↗](#)

Jun 2022

Implemented a variety of ML classifiers to predict infections, hospitalizations and diseases for the COVID-19 pandemic.

Private Server [↗](#)

Apr 2022

Developed a private server using docker to host a variety of applications. Managed networking with CloudFlare tunnels.

Solving the Traveling Salesman Problem for Magic Towns in Mexico [↗](#)

Dec 2020

Developed a system to find optimal tours to Mexican Magic Towns using discrete math and algorithms.

EDUCATION

Bachelor Degree in Data Science

June 2022

National Autonomous University of Mexico (UNAM)

Applied Mathematics and Systems Research Institute.

GPA: 3.86/4.0

- **Relevant Coursework:** Machine Learning, Deep Learning, Big Data I and II, Discrete Maths, Data Mining, Information Visualization, SQL and noSQL Databases, Natural Language Processing, Time Series, Stochastic Simulation, Statistics, Robotics and Control.
- **Academic Supervisor:** [Carlos Gershenson.](#)

Bachelor of Science in Physics

September 2020

National Autonomous University of Mexico (UNAM)

Faculty of Sciences.

GPA: 3.73/4.0

- **Thesis:** [Chemical characterization and plasmonic enhanced Raman amplification experiments in a modular spectroscopy system.](#)
- **Academic Supervisor:** [Carlos Villagomez Ojeda.](#)

SKILLS

Computing Languages: Python, R, SQL, Fortran, MATLAB, C++ for Arduino.

Libraries and frameworks: Numpy, Pandas, Matplotlib, Plotly, Scikit-learn, PyTorch, SciPy, PySpark, SageMaker.

Design: L^AT_EX, SolidWorks, Photoshop, Illustrator, After Effects, Audacity.

IT Tools: Linux, Airflow, Docker, GitHub, Google Colab, Google Maps API, VS Code, Overleaf.

Languages: Spanish (Native), English (C2), French (basics).

Other Skills: Electronics design and maintenance, Robotics, Metal machining, 3D design, 3D printing.

LEADERSHIP AND AWARDS

Founder and General Secretary of Sociedad de Egresados en Ciencia de Datos S.A. de C.V. October 2023 - Currently

- Founded this organization to increase the connection between government, enterprises, the general public, and UNAM's data science alumni. Participated in the organization's first steps and consolidation.

Member of the Academic Committee for the Data Science Bachelor at UNAM Aug 2021 - Jul 2022

- Elected Position. Fomented student participation. Participated in many administrative processes in the representation of the data science students, including the organization of events and the modification of the academic study plan.

United Nations Youth Hackathon 2021 December 2021

- Won the worldwide Hackathon's 3rd place and the 1st place for the students-only teams. Competed with teams from 33 countries.
- Implemented decision tree classifiers to help the most vulnerable countries to classify patients into infected or not and to get a probability of death and hospitalization given that patients become infected and forecasting for COVID cases for all countries with LSTMs.

Debate and Oratory Workshops at UNAM's Law Faculty 2018 and 2020

- Participated in two semester-long courses, one to improve interchange and debate of ideas and the other to improve oratory skills.

Active member of UNAM's Economics Faculty Debate Team Feb 2018 - Jan 2019

- Developed interpersonal abilities to communicate, analyze and share ideas.