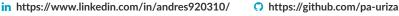
ANDRÉS URIZA

Data Scientist | Educator

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Bogotá . Colombia





WORK EXPERIENCE

Data Engineer

Factored

Sep 2021 - Present

Bogotá, Colombia

- Implemented ETL processes to extract data stored in data lakes and relational databases, to feed a dimensional model stored in a data warehouse using AWS and PySpark. Served BI visualization tools over a data warehouse to address business questions.
- Created serverless cloud services and infrastructure as code (IaC) tools.
- Developed an end-to-end automated report generation app using Docker and AWS.

Assitant professor

Universidad Sergio Arboleda

Aug 2019 - Present

P Bogotá, Colombia

- · Coordinated curriculum and teaching materials for decision-making and operational research class subjects.
- Led a student research group and taught courses in applied analytics and machine learning.

Consulting analyst

TransMilenio S.A.

mar 2019 - Mar 2020

P Bogotá, Colombia

 Proposed and implemented optimization models and machine learning strategies to support decision-making for the technical department of buses.

Instructor - Discrete-event simulation

Universidad de los Andes

P Bogotá, Colombia

• Trained students to model and evaluate stochastic systems and derive business recommendations through simulated environments.

Technology & Analytics consultant

World Bank Group

Mar 2018 - Jul 2018

P Bogotá, Colombia

- Researched and performed geo-spatial analysis, visualizations and descriptive statistics on the usage and promotion of non-motorized means of transportation.
- Developed a generalized additive model to explain sociodemographic and built-environment differences in bicycle commuting in the City of Bogotá.

Functional analyst

Zettai Consulting - Ajover

mar 2017 - Jan 2018

P Bogotá, Colombia

• Implemented tools and strategies to get data-drive valuable business insights by identifying, analyzing, and interpreting trends and patterns using statistical techniques

Graduate teaching assistant / Lecturer

Universidad de los Andes

m Jan 2014 - Dec 2016

P Bogotá, Colombia

- Teaching assistant Discrete-event Simulation from Jan to Dec 2016 -Manufacturing Systems from Jan 2014 to Jul 2015
- Lecturer Mechanical system dynamics from Jul to Dec 2015

LABOUT ME

data engineer with 6+ years of experience in data science. Helped companies make their data usable for analyzing, modeling, and generating valuable business insights. Experienced in developing ETL processes and creating ML/DL solutions. Knowledge-eager engineer with research experience in computer vision, NLP, and ML with graphs. Highly motivated to tackle challenging architectural and scalability problems for data-intensive applications and effective at working autonomously and in multi-disciplinary teams.

CTECHNICAL SKILLS

Python PyTorch R **MATLAB SQL Deep Learning Machine Learning Analytics**

PACHIEVEMENTS



Knowledge Evolution

Going next level everyday by continuous learning of technical and scientific knowledge



DS4A - Colombia Cohort 5l

Selected as one of the 620 over 9000 applicants for advanced education in data science, sponsored by the Colombian government



Graduated Teaching Assistance

Granted as an excellence recognition



Quiero Estudiar Scolarship

Half-tuition scholarship for undergraduate studies



M.Sc. in Industrial Engineering (CGPA: 4.37 / 5.0)

Universidad de los Andes

🗎 Jan 2016 - Dec 2016

P Bogotá, Colombia

- Thesis: A methodology for option pricing in electricity markets. Case study Colombia
- Research areas: Analytics, energy economics, simulation, energy derivatives, statistics

M.Sc. in Mechanical Engineering (CGPA: 4.39 / 5.0)

Universidad de los Andes

P Bogotá, Colombia

- Thesis: Design and implementation of passive weight compensation for a robotic manipulator
- Research areas: Robotics, weight compensation, nonlinear optimization, manipulator kinematics

B.Sc. in Industrial Engineering (CGPA: 4.19 / 5.0)

Universidad de los Andes

Jan 2010 - Dec 2014

P Bogotá, Colombia

- **Graduating project:** Formulation and evaluation of a integer optimization model for route design in BRT systems under uncertainty in demand
- Research areas: Stochastic optimization, route design problems

B.Sc. in Mechanical Engineering (CGPA: 4.16 / 5.0)

Universidad de los Andes

m Jan 2010 - Dec 2013

♥ Bogotá, Colombia

- **Graduating project:** Design and implementation of an exoskeleton for assistance in extension and flexion movements of human elbow
- Research areas: Orthesis design, rehabilitation robotics

***CERTIFICATES**

- Data Engineering Nanodegree. Udacity
- Deep Learning Specialization. DeepLearning.Al, Coursera
- DeepLearning.Al TensorFlow Developer Specialization. DeepLearning.Al, Coursera
- Natural Lenguage Processing Specialization. DeepLearning.Al, Coursera
- Al for Medicine Specialization. DeepLearning.Al, Coursera
- Generative Adversarial Networks (GANs) Specialization. DeepLearning.Al, Coursera
- Self-Driving Cars Specialization. University of Toronto, Coursera
- Advanced Business Analytics Specialization. University of Colorado Boulder, Coursera (On course)

PJOURNAL PUBLICATIONS

- Is the built-environment at origin, on route, and at destination associated with bicycle commuting? A gender-informed approach.
 Higuera-Mendieta, D., Uriza, P. A., Cabrales, S. A., Medaglia, A. L., Guzman, L. A., Sarmiento, O. L. (2021). In *Journal of Transport Geography*, 94, 103120. https://doi.org/10.1016/j.jtrangeo.2021.103120
- Design of Passive Weight Compensation for a Robotic Manipulator
 Uriza, P. A., Rodriguez C.F. (2015). In Applied Mechanics and Materials, (Vol. 798, pp. 30-35). Trans Tech Publications Ltd
 https://doi.org/10.4028/www.scientific.net/AMM.798.30

4STRENGTHS

Quantitative Analysis

Goal oriented

Decision Making

Leadership

Multidisciplinary Teamwork

Flexibility and Adaptability

Communication Skills

QLANGUAGES

Spanish English Portuguese German



COHOBBIES



Reading papers

Being updated on trending research topics



Amateur musician

Playing guitar and singing



Cooking

Experimenting with new recipes



Travelling

Always fond of traveling to new places



Community service

Volunteer teaching kids in vulnerable contexts

≪ REFERENCES

Prof. Carlos Francisco Rodríguez

- @ crodrigu@uniandes.edu.co
- Associate professor at the Mechanical Engineering Department, Universidad de los Andes

Daniel Ardila Palomino Palomino

- @ daniel.ardilapalomino@sony.com
- Engineer at Perception Systems Group, Sony Europe B.V. Zweigniederlassung Deutschland