



Agustín Rico

MATHEMATICAL ENGINEER
MEDELLÍN, COLOMBIA

Profile

I'm a Mathematical Engineer from Universidad EAFIT (Medellín, Colombia). My fields of expertise are Data Science (Analytics and Machine Learning) and Operations Research. I have extensive experience using Python, SQL, Power BI, MATLAB, and Gurobi.

Employment History

Operations Research Analyst (Freelancer), UpWork

📍 Remote from Medellín, Colombia

Jul. 2021 — Present

- ~ I'm a freelancer at UpWork. My jobs have included coding development; design and implementation of optimization models and heuristic algorithms; and Machine Learning models.
- ~ I've earned 'Rising Talent' and 'Top Rated' badges, representing the top 10% of talent on Upwork.

Portfolio Optimization Engineer, Arnie

📍 San Francisco, USA (Remote from Medellín, Colombia)

Mar. 2023 — Dec. 2023

- ~ I've designed and implemented optimization techniques and algorithms to solve a highly constrained portfolio optimization problem.
- ~ Through this advanced formulation I achieved faster running times while maintaining optimal results.

Machine Learning Intern, Intercolombia (ISA)

📍 Medellín, Colombia

Jul. 2021 — Jan. 2022

- ~ I interned in the Analytics and Machine Learning Department of the largest Colombian energy company.
- ~ I designed a Machine Learning model to predict electric failures based on heterogeneous maintenance report's data.

MATLAB Engineer, Parala Capital LLP

📍 London, UK (Remote from Medellín, Colombia)

Nov. 2022 — Jun. 2023

- ~ I ensured the reliability, accuracy, and efficiency of Parala's portfolio optimization pipeline by scrutinizing its code for robustness, correctness, and overall well-being.

Contact

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Links

[LinkedIn](#)

[UpWork Profile](#)

[Portfolio](#)

Skills

Machine Learning

Data Analysis

Python

SQL

Power BI

Operations Research

MATLAB

Languages

English – Professional

Spanish – Native

Education

Mathematical Engineering (Applied Mathematics), Universidad EAFIT

📍 Medellín, Colombia

Jul. 2017 — Nov. 2023

- ~ B.Eng. in Mathematical Engineering (Applied Mathematics). My area of interest has been Operations Research and Data Science. I've taken special courses in Mathematical Finance and Machine Learning.
- ~ Principal author of the following research projects:
 1. Mathematical Optimization Model and Heuristic Algorithm to minimize traveled distances by teams in the NBA (coauthored with Ph.D. Juan C. Rivera).
 2. Mathematical Formulation for the Multi-Sport Event Scheduling Problem (coauthored with Ph.D. Juan C. Rivera).

Courses

Advanced Analytics/Machine Learning in Cloud Solutions, Universidad EAFIT

Jul. 2021 — Jan. 2022

English for Adults, Universidad EAFIT

Jul. 2016 — Apr. 2017

Extra-curricular activities

Ultimate Frisbee Player

I'm a high-performance Ultimate Frisbee player. I have participated in multiple international tournaments representing the Colombian national team.