



Agustín Rico

MATHEMATICAL ENGINEER
MEDELLÍN, COLOMBIA

Contact:

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Profile

I'm a Mathematical Engineer from Universidad EAFIT (Medellín, Colombia). My fields of expertise are Data Analysis and Data Engineering. I have extensive experience using Python, SQL, Power BI, and Excel.

Employment History

Operations Research Analyst (Freelancer), UpWork

📍 Remote from Medellín, Colombia

06/2021 — Present

I'm a freelancer at UpWork. My work has included coding development, design, and implementation of optimization models, heuristic algorithms, and data analysis projects.

~ Earned 'Rising Talent' and 'Top Rated' badges, representing the top 10% of UpWork's freelancers.

Portfolio Optimization Engineer, Arnie

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

03/2023 — 12/2023

Designed and implemented optimization techniques and algorithms to solve a highly constrained portfolio optimization problem.

~ Achieved faster running times while maintaining optimal results.

Machine Learning Intern, Intercolombia (ISA)

📍 Medellín, Colombia

07/2021 — 01/2022

Interned in the Analytics and Machine Learning Department of the largest Colombian energy company.

~ Designed a Machine Learning model trained on heterogeneous maintenance report's data to predict electric failures.

MATLAB Engineer, Parala Capital LLP

📍 London, UK (Remote from Medellín, Colombia)

11/2022 — 06/2023

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

Education

Mathematical Engineering (Applied Mathematics), Universidad EAFIT

📍 Medellín, Colombia

07/2017 — 11/2023

~ B.Eng. in Mathematical Engineering (Applied Mathematics). My areas of interest have 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).

Links

[LinkedIn](#)

[UpWork Profile](#)

[Portfolio](#)

Skills

Data Analysis

Data Engineering

Python

AWS

SQL

Power BI

Languages

English – Professional

Spanish – Native

Courses

Diploma in Advanced Analytics/Machine Learning in Cloud Services, Universidad EAFIT

07/2021 — 01/2022

English for Adults, Universidad EAFIT

06/2016 — 04/2017