

Nicolás Bejar

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EDUCATION

GPA 4.11/5

Universidad de Los Andes

Jan 2018 - Jun 2022

B.E. Systems and Computing Engineering

Relevant Coursework: Data Structures, Object Oriented Programming, Algorithms, Computer Architecture, Machine Learning.

Universidad de Los Andes

Aug 2017 - Jan 2022

B.E. Industrial Engineering

Relevant Coursework: Advanced Excel, Finance, Probability & Statistics, Logistics & Production.

WORK EXPERIENCE

Universidad de Los Andes

Bogotá, Colombia

Teaching Assistant of Object-Oriented Programming in Java

Aug 2018 - Present

- Worked as teaching assistant of object-oriented programming course in Java. Performed all assistant teaching duties, including mentoring, lecturing, and grading assignments. Provided feedback, guidance and mentored a core of 100+ students.
- Increased the mean historic grade result of the course by 10% (from 3.76 to 4.13) .

Analytics Club

Bogotá, Colombia

Board Member of Analytics Club

Sep 2020 – Present

- Directed the creation of conference talks, workshops and projects focused on data analysis and machine learning. Coordinated a coworking environment where interdisciplinary students apply knowledge and skills to solve a necessity of a business.
- Increased participation from 25 to 200 active students in the club.

LQN startup

Bogotá, Colombia

Joint Advisor in a real estate investment project.

Sep – Dec 2020

- Developed a prototype of a credit scorecard model based on machine-learning tools using TensorFlow and Keras libraries that wanted to estimate home loans rejections probabilities based on customers characteristics.
- Increased the company valuation and created a model with a prediction accuracy of 70%.

MAJOR PROJECTS

Stocks Portfolio Optimization

Jan 2021 - Present

Portfolio calculator that estimates the average expected return of a group of stocks.

- Implemented a Python script using Jupyter notebook to estimate portfolio average expected returns and volatility. Applied optimization algorithms to maximize portfolio expected return and implemented advanced econometric models to estimate stock prices.
- Increased portfolio expected return by 34%.

Airport Model

Jan 2020

Simulation model of an airports traffic using 3D animated modeling software.

- Designed and developed airplanes and passengers traffic models using SIMIO simulation software.
- Tested 3 alternatives solutions to improve internal flow of pedestrians within the airport.
- Achieved 41% reduction of the mean average time spent by pedestrians on the airport, from 101 to 59 minutes.

SKILLS

PROGRAMMING LANGUAGES

Java, R, Python, SQL, VBA, JavaScript, HTML, CSS

AWARDS

Honorable Mention (2020)

Universidad de los Andes Innovation Competition

2nd Place Team (2017)

Universidad de los Andes Engineering Competition

LANGUAGES

Native: Spanish
Bilingual: English, Italian
Basic: Portuguese

TECHNOLOGIES

Django, MySQL, ReactJS, Git, AWS, Jenkins, Postman, Unix/Bash, Angular, Docker, SIMIO, Teamwork, Excel, Xpress, JUnit, PostgreSQL.

ONLINE COURSES

- R Programming (The Johns Hopkins University, 2020)
- Game Theory Introduction (University of Tokyo, 2020)
- Introduction to Data Science (The Johns Hopkins University, 2020)
- Programming in Python (Universidad Católica de Chile, 2020)