Juan Sebastián Barbosa

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Data Team Lead — Data Scientist — Data Architect — Credit Risk Specialist

Physicist and chemist with experience leveraging data to improve business results. Skilled in data strategy, infrastructure development, and cloud computing. Effective at collaborating across teams and guiding projects with data. Proficient in AWS services, data pipelines, and machine learning, with a focus on performance optimization and cost reduction.

Experience

Head of Data, *Foodology*
October 2022–June 2024
Creator and operator of virtual restaurant brands. `https://www.foodology.com.co/`

- Led Foodology's data strategy, contributing to doubling the efficiency of the operations and supply team by using data assets.
- Increased company-wide data usage by 20x by deploying Apache Superset, giving to more than 200 employees access to data.
- Managed and scaled a team of 4 data analysts, 3 data engineers, and 1 data scientist, increasing project delivery speed by 2x.
- Implemented Apache Airflow to automate over 100 ETL processes, reducing downtime and raising job success rates to 99 %.
- Cut cloud infrastructure costs by 30 %, doubling data capacity by optimizing AWS solutions and redesigning architecture.
- Led the deployment of a machine learning model to assess the launching of influencer brands, potentially increasing sales up to 20 %.
- Earned Rocket recognition twice, achieving 9.85/10 Leadership Feedback and raising team eNPS from 50 to 88.

Data scientist, *Zinobe - Tangelo Latam*
July 2019–October 2022
Technology company specializing in alternative credit. `https://www.tangelolatam.com/`

- Created an Machine Learning model for automatic loan approvals, increasing loan coverage by 4,000 low-income Colombians and disbursing 6,000 loans during the pandemic.
- Developed a Merchant Cash Advance scoring system for Mexico terminal operators, resulting in over 10,000 disbursements.
- Built a decision support system that sped up SME credit evaluations to a single day.
- Led the development of a psychometrics scoring system, increasing approval rates by 10 % through behavioral loan assessment tests.
- Built Django-based system for portfolio allocation handling 30 million USD.

Software Developer, *Tausand Electronics*
January 2017–January 2021
Scientific instrumentation development company. `https://www.tausand.com/`

- Designed and developed Abacus software and interface libraries in Python for experiment customization, leading to about 100 monthly downloads.

Research assistant, *Universidad de los Andes, Centro de Microscopía*
January 2018–June 2019
`https://investigaciones.uniandes.edu.co/es/microscopia/`

- Automated image analysis techniques, cutting manual analysis time by 20 %.
- Built Microbill (CRM software), boosting service tracking and invoicing efficiency by 100 %.
- Created Igor Extractor an Atomic Force Microscope data extraction software, cutting data processing time by 50 %.

August 2016–December 2017	**Teaching assistant of Computational Methods**, *Universidad de los Andes, Departamento de Física*

- Developed educational libraries for gravitational and wave simulations (AstroHut, rippleTank), with 100+ monthly downloads.
- Published a set of computer simulations to increase students interest in programming abilities.

Education

Majors

2013–2019	**Physicist**, *Universidad de los Andes*, Colombia, GPA: 4.01/5.00
2014–2019	**Chemist**, *Universidad de los Andes*, Colombia, GPA: 4.01/5.00

Certifications

2022–2022	**Nanodegree: Data Architect**, *Udacity*
2021–2021	**Nanodegree: Data Engineering**, *Udacity*
2020–2020	**Data Science For All**, *Correlation One - MinTIC*, Colombia, 375 hours
2020–2020	**Scrum Foundation Professional Certificate**, *CertiProf*

Hard & Soft skills

- Programming (Python, C, Java, R)
- Cloud Computing (AWS, GCP)
- Database Management (SQL, MongoDB, Cassandra)
- ETL Pipeline Development (Airflow)
- Data Analysis and Modeling
- Data Visualization (Superset, Tableau, Power BI)
- Machine Learning and AI (Scikit-learn, Tensorflow)

- Leadership and Team Management
- Problem-solving and Critical Thinking
- Communication and Collaboration
- Project Management
- Adaptability and Continuous Learning

Achievements & Projects

- Automated 100+ ETL processes with Airflow, reducing downtime and boosting job success rate to 99 %.
- Reduced cloud infrastructure costs by 30 % while doubling data capacity.
- Built a statistical model that facilitated 6,000 loan approvals, benefiting 4,000 low-income Colombians.
- Led a cross-functional data team to achieve an eNPS increase from 50 to 88 within two years.

- **Abacus Software:** Interface libraries with 100 monthly downloads.
- **Microbill CRM:** CRM streamlining invoicing and service tracking.
- **Merchant Scoring**: System responsible for over 10,000 disbursements.
- **Portfolio Allocation Tool:** Automate portfolio allocation for 30 million USD.

Languages

- **English:** Fluent (C1). IELTS certificate (7.0/9.0)
- **Spanish:** Native speaker

Extracurricular activities

May 2019	**Participant**, *Machine Learning for Quantum Matter and Technology*, Décima Escuela de Física Matemática
April 2019	**Collaborator**, *Sympy*
April 2017	**Organizer**, *Python Bootcamp Uniandes, Universidad de los Andes*