Juan Sebastián Barbosa

 316 794 6510   •   jsbarbosacoy@hotmail.com
 www.github.com/jsbarbosa

Head of Data at Foodology with a background in natural sciences, technology and credit risk assessment. Accomplished physicist and chemist with a robust track record of leveraging data-driven insights to propel organizational success. Demonstrated proficiency in problem-solving across diverse domains and a keen interest in continuous learning. Extensive experience in harnessing the power of data to inform decision-making and drive business outcomes. Specialized skills in data analysis, interpretation, and the development of cutting-edge tools for impactful solutions.

Work experience

Industrial

Foodology
Head of data   October 2022–Present
Foodology creates and operates virtual restaurant brands, created especially for delivery. `https://www.foodology.com.co/`

- Shaping Foodology's data strategy and leveraging data assets to drive business growth and innovation
- Ensure the effective collection, storage, and utilization of data assets
- Oversee the design and implementation of robust data infrastructure, ensuring scalability, reliability, and security
- Drive the development and deployment of advanced analytics models and algorithms to extract actionable insights
- Collaborate cross-functionally with various teams to identify opportunities for leveraging data to drive business value

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

- Development of statistical models for credit risk decisions (Python) in Consumer Lending and SME Lending
- Coordinator of the psychometrics project for the evaluation of risk profile in customers (Python)
- Developer of the platform for optimum portfolio assignation to debt investors (Python-Django)

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

- Responsible for the development of the software Abacus (Python)

Academic

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

- Analysis of microscopy images using computer vision
- Developer of the customer relationship management software (Microbill, /microbill, Python)
- Developer of the Atomic Force Microscope data extraction software (Igor Extractor, /SPM, Python)

Universidad de los Andes, Departamento de Física   **(Physics Department, Computational methods)**
Teaching assistant of Métodos Computacionales   August 2016–December 2017

- Development of the libraries: astrohut (/astrohut, Python), rippleTank (/rippleTank, Python) and a series of computer simulations `https://github.com/ComputoCienciasUniandes/Demonstrations`

Education

Academic training...

- **Universidad de los Andes** — **Colombia**
  Physics student, 4.01/5.00 — *2013–2019*
- **Universidad de los Andes** — **Colombia**
  Chemistry student, 4.01/5.00 — *2014–2019*
- **Correlation One - MinTIC** — **Colombia**
  Graduated with Honors DS4A, 375 hours — *2020–2020*
- **CertiProf**
  Scrum Foundation Professional Certificate — *2020–2020*
- **Udacity**
  Nanodegree: Data Engineering — *2021–2021*
- **Udacity**
  Nanodegree: Data Architect — *2022–2022*

Extracurricular activities

- **Machine Learning for Quantum Matter and Technology** — **Décima Escuela de Física Matemática**
  Participant — *May 27-31 2019*
  `https://matematicas.uniandes.edu.co/~cursillo_gr/escuela2019/index.php`
- **Sympy**
  Colaborator — *April 2019*
  `https://github.com/sympy/sympy/blob/master/AUTHORS`
  - Occasional collaborator in the development of the library SymPy for the symbolic calculation in Python
- **Expociencia, Uniandes en Corferias**
  Exhibitor — *October 29-31 2018*
  `https://ingenieria.uniandes.edu.co/Paginas/Noticias.aspx?nid=429`
  `https://medicina.uniandes.edu.co/index.php/es/facultad/noticias/448-expociencia-2018`
  - Science disseminator for the attending public
  - Presenter of demonstration experiments with microscopes from Centro de Microscopía of Universidad de los Andes
- **Python Bootcamp Uniandes, Universidad de los Andes**
  Organizer — *April 29-30 2017*
  `https://pythonbootcampuniandes.github.io`
  - Development and presentation of the solutions to the exercises proposed during the workshops

Languages

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