

# Juan Sebastián Barbosa

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🌐 [www.github.com/jsbarbosa](https://www.github.com/jsbarbosa)

Data team lead 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. Skilled in cloud computing with expertise in utilizing AWS services to architect scalable and resilient solutions, optimize data storage and retrieval processes, and implement secure and cost-effective cloud infrastructure strategies.





## Work experience

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### Industrial.....

- **Foodology** **Cloud computing with AWS**  
*Head of Data* *October 2022–June 2024*  
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** **Cloud computing with AWS**  
*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** *January 2017–January 2021*  
*Software Developer*  
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, , [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

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### 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

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- **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](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

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

### Tools

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- **Python:** Proficient
- **SQL:** Proficient
- **Apache Airflow:** Proficient
- **Apache Superset:** Proficient
- **Git:** Proficient
- **Docker:** Proficient
- **Cloud (Upper intermediate):** Upper intermediate