Juan Sebastián Barbosa

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🌐 www.github.com/jsbarbosa

Natural and data scientist. Physicist and Chemist with several years of experience in the technology industry and finance. Skills in identifying and solving problems in multiple areas of knowledge. Motivated by learning, the development or the improvement of tools that generate a positive impact on all types of users. Passionate about the world of programming and its application in different areas of research and industry. Ability to work under pressure, within multidisciplinary teams, with leadership aptitude in the implementation and development of ideas and the subsequent visualization of results.

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*

Work experience

Industrial

Zinobe SAS
Data scientist   *July 2019–Present*
Zinobe is a Colombian Fintech with 9 years in the market, where data is the principle for decision making.
`https://www.zinobe.com/`

- Development of statistical models for making credit risk decisions (Python)
- Development of predictive models for process automation (Python, Bash)
- Coordinator of the psychometrics project for the evaluation of the risk profile of clients (Python)
- Developer of the platform for the configuration and visualization of the portfolio associated with debt investors (Python-Django)
- Responsible for communication with the infrastructure team for the deployment and maintenance of models in production (Python, Docker, AWS)

Tausand Electronics
Software Developer   *January 2017–Present*
Tausand is a scientific instrumentation development company. `https://www.tausand.com/`

- Currently responsible for developing the software Abacus (Python), which allows to use the coincidence counter that bears the same name
- Microcontroller programmer for various applications of the company

Academic

Universidad de los Andes, Centro de Microscopía   **(Microscopy center)**
Research assistant   *January 2018–Present*

https://investigaciones.uniandes.edu.co/es/microscopia/

- Administrative tasks: generation of quotes and user service
- Laboratory assistant: management of the Confocal Laser Scanning Microscope, and fluorescence microscopes
- Analysis of microscopy images
- Developer of the software for the centralization of user requests (`Microbill`, ⊕/microbill, [Python](#))
- Developer of the software for the data extraction of the Atomic Force Microscope (`Igor Extractor`, ⊕/SPM, [Python](#))

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

- Proposal of exercises and workshops
- Development of the libraries: `astrohut` (⊕/astrohut, [Python](#)), `rippleTank` (⊕/rippleTank, [Python](#)) and a series of computer demonstration experiments https://github.com/ComputoCienciasUniandes/Demonstrations

Universidad de los Andes, Departamento de Física   **(Physics Department, Astrobiology & Physics 1)**
Teaching assistant of Astrobiología and Física I   *January 2015–May 2016*

- Enriching and fundamental experience for the formation and the discovery of potential and interest in the field of teaching and the search for knowledge
- Development of methodologies that allow tracking the failures or progress of students

Extracurricular activities

Sympy
Colaborator, 1/822 coauthors   *Present*
https://github.com/sympy/sympy/blob/master/AUTHORS

- Occasional collaborator in the development of the library [SymPy](#) for the symbolic calculation in [Python](#)

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

Expociencia, Uniandes en Corferias
Exhibitor   *Octubre 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

56 projects on GitHub
Content generator and opensource enthusiast   *July 2016-Present*
https://github.com/jsbarbosa

- Believer of the opensource community. Partly I am, thanks to those who spread their projects, and allowed me to learn from them. Reason why I publish my projects of free time, with the hope of giving back a little the generosity of the community that has given me so much

Languages

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