# Mariano Chaves
## Software Engineer/ Data Scientist

## My Contact

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https://marianochaves.github.io/
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## Hard Skill

- Python, C++, Git, CI/CD, Unit Testing, CUDA, OOP, Design Patterns
- AWS Cloud, Terraform, Data pipelines, Glue, Big Data, PySpark
- Machine Learning, Statistics, PyTorch, OpenCV

## Soft Skill

- Effective Communicator
- Decision making
- Take Initiative
- Supportive and Collaborative
- Continuous Learner

## Education Background

- Universidade Estadual de Campinas, Brazil

  **Doctorate in Physics**, 2018 - 2022

  Ph.D. student visitor at the Karlsruhe Institute of Technology in Germany between 2020 and 2021.

- Universidade Federal Fluminense, Brazil

  **Masters in Physics**, 2016 - 2018

  2016 - 2018

- Universidade Federal Fluminense, Brazil

  **Bachelor in Computational Physics**, 2012 - 2016

  I graduated as the top student in my Physics class.

## About Me

I am a dedicated Data Scientist and Software Engineer with a strong academic foundation in Computational Physics. My educational journey has honed my analytical and **problem-solving** skills. In my professional journey, I've combined my academic insights with software development expertise, contributing to innovative solutions and projects. My commitment to continuous learning and staying at the cutting edge of technology fuels my passion for impactful work.

## Professional Experience

Wingbits | Part-time Software Engineer | Sweden
*Jan 2023 – Present*

Key responsibilities:
- Crafting data products using **Python**, and utilizing the capabilities of **AWS cloud** systems. Special emphasis on managing large datasets, transforming raw data into valuable insights.

Itaú-Unibanco Holding | Data Scientist | Brazil
*Jan 2022 – Present*

Key responsibilities:
- Integrated software solutions with AWS services, ensuring robustness and security in cloud-based model validation processes.
- Conducted regular **software testing and debugging**, addressing issues in a CI/CD pipeline.
- Designed and implemented an AWS-based solution for monitoring **big data** models using PySpark and Glue, ensuring efficient and scalable processing of large datasets.

Itaú-Unibanco | Model validation analyst | Brazil
*Oct 2021 – Dez 2021*

Key responsibilities:
- Conducted thorough validation of machine learning models to ensure their accuracy, reliability, and compliance with regulatory requirements.

## Achievements

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|---|---|
| 2018 | Selected in first place to enroll in various Ph.D. programs. |
| 2020 | Creator of nuMCMC a C++ **library** for physics internationaly used. |
| 2021 - 2022 | Acknowledged for performance during the two years at Itaú-Unibanco, receiving an "**Outstanding**" evaluation, highlighting the contributions to the bank's objectives. |