# Mariana Meireles
## Systems and Software Engineer

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## PROFESSIONAL EXPERIENCE

**ANACONDA**                                                                                    **Remote, Berlin, GE**
**Software Engineer III**                                                                       **MAY 2022 - May 2023**
- Engineered and improved various aspects of PyScript's API, including the output system, core Python code re-architecture, WASM integration and Python multithreading in the browser, implemented the initial testing infrastructure and several aspects of the CI system
- Led early efforts in community building for PyScript. Built bridges with external projects like JetBrains, Jupyter and Pyodide and with contributors
- Organized an international, cross-project group with 8 organizations and 20+ contributors to establish a centralized set of protocols for Python web development

**NASA**                                                                                                   **Remote**
**Subject Matter Expert**                                                                         **JUN 2022 - Aug 2023**
- Presented the state of the art of the open science research ecosystem to the group of researchers
- Collaborated in building the chapter on the "Ethos of Open Science" for NASA's upcoming EdX Open Science 101 course

**QUANTSTACK**                                                                                  **Remote, Berlin, GE**
**Scientific Software Engineer**                                                                  **FEB 2020 - Apr 2022**
- Integrated the Cytoscape interactive graph library into the Jupyter ecosystem as a widget. Developed Jupyter kernels to support major SQL languages and implemented data visualization capabilities for SQL query outputs within the notebook environment. Added new visualization mode to Jupyter notebooks. Created a deprecation finder for Bloomberg software and contributed it to the Jupyter project
- Authored several aspects of the Mamba and Micromamba APIs and developed R bindings, resulting in a package manager system 25x faster than CRAN. Released and maintained several different packages in the conda-forge ecosystem

**MOZILLA**                                                                                                **Remote**
**Web Performance Intern**                                                                        **DEZ 2018 - Feb 2019**
- Cut the average loading time of the Webcompat website by 35% through the implementation of server-side rendering, HTTP/2, enhanced compression algorithms, and the removal and reimplementation of libraries
- Employed Selenium-designed tests to track down some performance bottlenecks and decrease the page load time by 1s in low-speed mobile connections
- Worked on small patches for Firefox, available on my bugzilla profile

**COMPUTER SCIENCE DEP. - UFMG**                                                               **Belo Horizonte, BR**
**Undergraduate Researcher**                                                                      **MAR 2018 - Jun 2018**
- Collaborated with Dr. Flavio Figueiredo to investigate potential correlations between language use and gender using NLP and big data analytics

## EDUCATION

**RECURSE CENTER**                                                      **New York City, US**
*Independent Researcher in Reinforcement Learning and Emergent Algorithms*      **2023 - Present**
Developing AI Coordination [software projects](#)

**MIT**                                                                          **Remote**
*Micro Masters Program in Data, Economics and Development Policy*            **2023 - Present**

**UNIVERSIDADE FEDERAL DE MINAS GERAIS**                          **Belo Horizonte, BR**
*Bachelor of Engineering, Major in Electrical Engineering; Minor in Computer Science (Incomplete)*      **2015 - 2018**

## ADDITIONAL PROJECTS

- **DISC NumFOCUS Steering Council Member:** Responsible for organizing the NumFOCUS Unconference 2023, updating the NumFOCUS DISCOVER Cookbook and [developing integration programs](#) aimed at enabling participation from individuals in poverty within the open science ecosystem
- **Jupyter Widgets Committee Member:** Community maintenance and governance stewardship
- **Guest Lecturer by the LSSTC-DSFP at Harvard:** [Instructed graduate students in Astronomy](#) on topics such as Object-Oriented Programming (OOP), performance optimization for scientific software, as well as open science and reproducible research practices
- **Women of Color Code:** Software mentor and co-organizer of this project that seeks to unite members of minoritized groups to battle feelings of isolation and marginalization that are prevalent in educational institutions and industry settings
- **Open Life Science:** Mentored an undergraduate software engineer in the development of a program designed to integrate young research software engineers into the field. This project is affiliated with UK-RSE
- **PyLadies Berlin:** Organizer of PyLadies Berlin, facilitating [workshops and talks](#)

## AWARDS

- "[Jupyter Distinguished Contributor](#)" award                                    **2022**