Isabella Basso do Amaral

✉ isabellabdoamaral@usp.br 🔗 ⎇ 🐙 @isinyaaa

São Paulo, Brazil

she/her

🐧 Linux enthusiast/independent contributor ǔ ♥ OSS

I hold a firm belief that we should build sustainable things to help maintain and improve what good things we've achieved so far as a species, and as a technophile, I feel the urge to help reshape the way technology is built and distributed.

I work and live by these principles, as a developer who's passionate about her work and mindful of the world we live in.

Education

- **Molecular Sciences BSc**
  emphasis on maths & computer science
  University of São Paulo
  August 2020 onwards
  Ongoing
  As a scientist by nature, I thrive in interdisciplinary contexts; that's exactly what my degree is about.

  In my degree:

  - I'm trying to understand what makes some graphics APIs great, and how we can match the convenience of closed source ones with open source alternatives, improving their adoption in scientific aplications like machine learning.

  As a scientific guidance student:

  - I studied algorithms & graph theory;
  - I studied and presented topics of high complexity in our local study group.

- **Industrial Automation Technical High School**
  Federal Fluminense Institute
  2017 up to 2019
  Concluded
  As a top student:

  - I helped my friends in my free time and led class projects;
  - I organized several scientific projects.

  My academic CV (which has a list of project that I participated in): [lattes.cnpq.br/]

Work experience

- **Software Engineer**
  Red Hat
  November 2021 onwards
  Django, SQL, Python, Containers, Bash, C, Git, Remote team collaboration, CI
  I currently work with static analysis CI solutions for Fedora/RHEL RPM packages.

  As a software engineer:

  - I'm updating a legacy Python codebase;
  - I'm helping my team in upstreaming and open-sourcing efforts (expected completion by the end of this year);
  - I'm engaged in supporting our project's internal (company-wide) userbase ($\sim$ 5000 developers).

- **Internship**
  Data Machina
  February 2021 up to October 2021
  Python, Google Cloud, Firebase, Docker, Git, Agile Methods, Augmented Reality (AR), Research
  Data Machina is a Brazilian startup company with a focus on data science solutions.

  As an intern:

  - I mentored another intern;
  - I explored the development of an AR solution;
  - I also helped significantly in the development of a WhatsApp chatbot;
  - I was recognized by my peers as a leading talent;
  - I assisted and led various key maintenance tasks (deploying, setting up CI, etc.).

Side projects

- **Google Summer of Code participant**
  [summerofcode.withgoogle.com]
  May 2022 up to September 2022
  C, Git, Kernel, Mailing lists
  I'm currently working on a project to improve unit test coverage in AMD's Linux kernel graphics driver.

  As a GSoC student:

  - I've had to deal with production hardware code, documenting, testing, and improving it;

  - I'll present my work internally to AMD and also in an international conference.

  My GSoC project: [summerofcode.withgoogle.com/]

  My talk: [indico.freedesktop.org/]

- **Linux Kernel mentee**
  Mentored by AMD GPU engineer Rodrigo Siqueira
  July 2021 onwards
  Bash, C, Git, Profiling Tools, Kernel
  Siqueira helped me in my journey as an independent Linux Kernel contributor.

  As a mentee:

  - I learned many things about Linux' GPU subsystem (DRM);

  - As part of my learning I fixed many compilation warnings in AMD's driver;

  - I also helped with internal code restructuring to make FPU code more maintainable;

  - I started a blog to share my experiences and knowledge.

  My blog: [github.io/]

  List of my upstream commits: [git.kernel.org/]

- **LKCAMP group member**
  [lkcamp.dev]
  June 2021 onwards
  C, Git, Profiling Tools, Kernel, Linux
  LKCAMP is an OSS-focused group from Unicamp (the state university of Campinas) that has as its purpose to help students contribute to open source software.

  As a hackathon participant:

  - I helped my group and engaged profusely with the community.

  Then, as a group member:

  - I gave a lecture about Kernel Device Drivers;

  - I also helped organize another hackathon.

Skills

- **Programming**

  - (⩾2y): LaTeX (3y) & Python (4y)

  - (⩾1y): Bash, C, C++, C# & Java

  - (<1y): Haskell & Rust

- **Languages**

  - Portuguese (native), English (C1 + 6mo interchange + translation experience)

  - Spanish & German

  - French & Finnish