

# Isabella Basso do Amaral

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São Paulo, Brazil (she/her)

♥ OSS 🐧 Linux independent contributor

I'm passionate about technology and I truly believe that, with the right motivation, it can be the primary tool to solve the world's problems. I've been getting involved with the open source community with local groups and trying to help people to get involved with it.

## Work experience

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- **Software Engineer**

Red Hat

*November 2021 onwards*

**Django, SQL, Containers, 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 beginning of 2023);
- I'm engaged in supporting our project's internal (company-wide) userbase (~ 5000 developers).

- **Internship**

Data Machina

*February 2021 up to October 2021*

**Google Cloud, Firebase, 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 developed core features for a WhatsApp chat-bot;
- I was recognized by my peers as a leading talent;
- I assisted and led various key maintenance tasks (deploying, setting up CI, etc.).

## Education

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- **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 applications like machine learning.

Research project page: [\[github.com/\]](https://github.com/)

As an undergrad researcher:

- 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 also organized several scientific projects.

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

## Side projects

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- **Google Summer of Code participant**

[\[summerofcode.withgoogle.com\]](https://summerofcode.withgoogle.com/)

*May 2022 up to September 2022*

**Device drivers, Virtualization, Kernel, Mailing lists**

I've worked 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've presented my work internally to AMD and also at [X.Org Developers Conference 2022](#).

My GSoC project: [\[summerofcode.withgoogle.com/\]](https://summerofcode.withgoogle.com/)

My talk: [\[youtube.com/\]](https://youtube.com/)

- **Linux Kernel mentee**

Mentored by AMD GPU engineer Rodrigo Siqueira

*July 2021 onwards*

**Profiling Tools, Virtualization, Kernel, Mailing lists**

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.

List of my upstream commits: [\[git.kernel.org/\]](https://git.kernel.org/)

- **LKCAMP group member**

[\[lkcamp.dev\]](https://lkcamp.dev)

*June 2021 onwards*

**Kernel, Linux, Mentoring, Community engagement**

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 helped organize another hackathon.

## Skills

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- **Programming**

■ ■ (≥2y): Bash (3y), C (2y), Python (5y)

■ ■ (≥1y): C++, C#, Haskell, Java

■ ■ (<1y): JavaScript, Lua & Rust

- **Languages**

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

■ ■ German (B1)

■ ■ French, Finnish & Spanish