

Isabella Basso do Amaral

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São Paulo, Brazil

she/her

🐧 Linux enthusiast/independent contributor · ❤️ 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
(*August 2020 onwards*) University of São Paulo · **On-going**

As a scientist by nature, I thrive in interdisciplinary contexts; [that's exactly what my degree is about](#).

In my degree:

- I'm looking into research topics dealing with operating systems (specifically low-latency ones) optimizing use cases regarding server applications, and will start contributing to Microsoft's Demikernel project
- research project starts in August 2022;

Demikernel: [\[github.com/\]](https://github.com/)

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**
(*2017 – 2019*) Federal Fluminense Institute · **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): [\[lattes.cnpq.br/\]](https://lattes.cnpq.br/)

Work experience

- **Software Engineer**
(*November 2021 onwards*) Red Hat · **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 (~ 5000 developers).

- **Internship**
(*February 2021 up to October 2021*) Data Machina · **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

- **OSS group member**

(*June 2021 onwards*) LKCAMP [lkcamp.dev/] · **C, Git, Profiling Tools, Kernel, Linux**

LKCAMP is a 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.

- **Linux Kernel mentee**

(*July 2021 onwards*) Mentored by AMD GPU engineer Rodrigo Siqueira · **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 the Linux GPU/DRM subsystem;
- As part of my learning I fixed many compilation warnings in the AMD 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/]

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