

David Viana

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A Software Engineer seeking to join a large team, and tackle highly interesting problems.
Passionate about system building and committed to continuous growth.

Work Experience

Software Engineer | *LTPLabs, Porto*

Since May 2023

- Enhanced and expanded an internal Python package designed to help Business Analysts connect to databases, like Redshift and PostgreSQL, as well as S3. Featuring a clearer, more comprehensive interface for each service, cleaner code, robust testing suites and automated releases through GitLab CI/CD pipelines.

Business Analyst & Developer | *LTPLabs, Porto*

July 2021 - April 2023

- Developed a multi-stage decision support system for a health and wellness retailer, which optimizes store product assortments based on each store's customer profile and demand patterns.
- Took over support responsibilities for a large beverage manufacturer's production planning tool and gradually improved its complex Python codebase, increasing reliability, readability and overall maintainability.
- Designed a PowerBI dashboard for a top international tobacco company, offering a unified, comprehensive view of the analytics of their multiple markets.
- Organized and conducted a Git workshop, teaching the basics of the tool and version control to coworkers with Industrial Engineering backgrounds.
- **Key takeaway: Developed key prioritization and productivity skills in a fast-paced consulting environment, ensuring quality deliverables while minimizing technical debt incurred in the process.**

Junior Business Analyst (Thesis internship) | *LTPLabs, Porto*

Feb. 2021 - June 2021

- Developed a decision support system for a major plant oil producer, to assist in the evaluation of trade promotions and to increase the profitability of a given promotional plan. It is described in my master thesis, titled "[The art of the deal: Machine learning based trade promotion evaluation](#)".

Education

Integrated Master in Electrical and Computer Engineering | *FEUP, Porto*

Sep. 2016 - July 2021

College Experience

I was a TA for the Advanced Programming course at my university for two semesters, where I aimed to familiarize students with key data structures and cultivate in them a programmer's problem-solving mindset.

In my second year, I interned at INESC TEC, an R&D company, where I modeled and trained a neural network to predict the ability of an aerial mesh of drone mounted access points to provide internet access to a dynamic network of users.

Programming Languages/Tools

Professionally, I have used Python, SQL, Git, Docker, Numpy/Pandas for nearly every large analytics project I have been in so far. Have used FastAPI (love it!) for quick public-facing API creation and have dabbled with Django.

One time, I wrote a Python extension in C/C++ to address speed concerns (Numba couldn't help here!).

Regarding non-professional use, I also dabble with JS, Flutter, Zig, and as little CSS as I have to (how do you center a div?), among others. A little known fact is that I have a permanent DigitalOcean droplet that I manage and use for whatever personal project I'm having fun with at the moment.

More about me

I love running until exhaustion, as long as I'm in good company.

Love eating out, especially at restaurants I've never been at before.

Overall, interested in enjoying the small things.

My mother tongue is Portuguese and I am near native (C2) in English.

I know some French (mostly forgotten from my school days) and my Japanese is a hobbyist work in progress.