Vitor Baptista

Web Developer

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Experience

2012–2014 **Developer**, *Open Knowledge Foundation*, Cambridge, UK.

I was part of the CKAN (`http://ckan.org`) team. CKAN is the world's most used open source data portal portal, powering sites like `http://data.gov.uk` and `http://data.gov`. It's written in Python using Pylons and Postgres. The core team was composed of about 10 people geographically distributed.

My latest contribution was revamping its data visualization system, allowing a single dataset to have multiple visualizations, and making it easier to build custom visualizations. This feature was initially developed for London's Natural History Museum Data Portal (`http://data.nhm.ac.uk/`), and was later released as part of CKAN 2.4.

I've also deployed a few data portals like `http://datos.gob.mx` and `http://data.org.pk`, making sure their servers are secured and able to handle their expected load. customizing them based on the clients' requirements.

2011–2012 **Developer**, *ThoughtWorks*, Porto Alegre, Brazil.

I've worked as a Rails developer for a few projects during my time at ThoughtWorks. The projects were managed following agile development practices, including pair programming.

My main contribution was being part of the team of 6 people that flew from Brazil to the USA to work on-site for 3 months with one of the (at the time) largest clients of ThoughtWorks. The objective was to meet the client and their internal developers, work with them, understand the code structure and their challenges, to later bring the project to Brazil.

It was one of the largest and oldest Rails codebases worldwide, with about 300k lines of code, in production since 2007. The team had 50+ people distributed between two locations in the USA, Canada, India, and Brazil.

2010 **Intern**, *Linux Foundation*.

I was selected as a student in Google's Summer of Code 2010 for the Linux Foundation. I've worked for 3 months with the leader of the OpenPrinting project, Till Kamppeter, developing in Python a compressor for PostScript Description Files (printer drivers) named pyppd (`https://github.com/vitorbaptista/pyppd`). I was able to get 90% of compression ratio. It's included by default in all the main GNU/Linux distributions, like Ubuntu, Debian and Fedora.

2007–2010 **Researcher**, *Digital Video Applications Lab*, João Pessoa, Brazil.

I've worked on the development of OpenGinga, a free implementation of the brazilian digital tv middleware, Ginga. It was done in C++ and Java and ran on a GNU/Linux box.

Education

2013–2015 **Master's in Computer Science**, *Federal University of Paraíba (UFPB)*, Paraíba, Brazil.

I've built a statistical model using R and Python that detects when a legislator is changing her position in relation to the government, entering or leaving its coalition, based on her voting patterns during rollcalls. The final model was based on the C5.0 method. It achieved 90% accuracy with an area under the ROC curve of 0.88.

2006–2010 **Bachelor in Computer Science**, *Federal University of Paraíba (UFPB)*, Paraíba, Brazil.
I've built a software that returns if two or more software licenses are compatible or not. They have to be described in the Creative Commons Rights Expression Language (ccREL). This could help companies and developers to better understand if they can add in their projects a third-party library that's licensed under some other license.

Projects

Orçamento ao seu alcance — It was made by me with a designer and a project manager for a brazilian NGO that monitors the government spending. The main objective was to raise awareness of the problem of underspending by the Brazilian federal government. It was built in 6 weeks, from inception to production, as a single-page app using Angular 1.0, Rails 4.0, and NVD3.js. (`http://orcamento.inesc.org.br`)

Escola Que Queremos — In Brazil, schools are ranked based on IDEB, the Basic Education's Development Index. It defines what's a good school based on approval rates and scores in Math and Portuguese. That's quite limiting: what about all the other things that are important as well, like offering sports, having a computer lab, or even basic things like offering lunch for the students. What's important to me might be irrelevant to you. So, during a 2-day hackathon, I built a tool with other 3 friends (2 devs and 1 journalist) that allows the user to build her own score, picking whatever matters to her. She can then compare the Brazilian schools using this custom score. I was responsible for the design and front-end programming. It was built as a single-page app using Rails 3.2 and D3.js. We won the first place. (`http://escolaquequeremos.org`)

Reputação S/A — It's a mobile visualization and reference tool of the consumers complaints against Brazilian companies using data collected by PROCON (consumer protection organization) and made for the first contest organized by the Brazilian Ministry of Justice together the W3C office in Brazil. With a total project time of one week, from inception to production. We won the first place. (`http://reputacao-sa.org`)

Who won 2012's elections in Brazil? — I've worked with Estadão's data visualization team during the week before municipal/state elections in Brazil. We designed and built an interactive visualization that shows the growth and decrease of the political parties in the states. How many mayors they got elected, how many people they'll govern, etc.. It's a single-page app built with D3.js. We updated the data live, while the results were being published. There were almost 150.000 visits in two days. (`http://estadaodados.com/eleicoes2012/`)

Retrato da Violência — I worked with a couple friends an interactive visualization on the data about rapes in the Brazilian state Rio Grande do Sul. This was for the DecodersRS contest organized by W3C Brazil. This was done in a couple weeks during our spare time. We won the first place. (`http://retratodaviolencia.org`)

Skills

Languages — Ruby, Python, JavaScript, R, Bash

Frameworks — Rails, D3.js, NodeJS