Ștefan Talpalaru

Italy

stefantalpalaru@yahoo.com

stefantalpalaru@gmail.com

Skype: stefan.talpalaru.ocg

Personal statement

I am a software architect and developer with 10 years of experience – mostly in web related projects – and a system administrator focused on Linux.

Professionally, I gravitate around Python, Django, Javascript and Gentoo.

My open-source projects vary from the usual Django apps / Python wrapper for PCRE / Go worker pool library / etc. to the genuinely interesting grafting of the gccgo runtime unto Nim in order to combine Go's goroutines, channels and GC with Nim's generics, macros and transpilation to C.

Then there's the occasional dip in unknown waters like the porting to Linux of a C/C++ scanning tool made by Studio Ghibli, including a new SANE front-end – of questionable practical use when xsane is available, but with some tracing tricks up its sleeve and needed to replicate the original workflow of the related OpenToonz project. I had no prior experience with SANE or FLTK, but that's the beauty of open-source – no artificial barriers to entry.

Skills

- Python – used mainly in web development, in conjunction with Django (and Cython for wrapping C libraries)
- Javascript – just client-side, we have nicer languages for wasting cycles on the server
- Go – just enough to come to the conclusion that less is not more. More is more. Elegant CSP implementation, though.

- Nim – enough to appreciate a straightforward language design, strong static typing, metaprogramming, algebraic data types, pragmatic use of existing tools, etc.
- Haskell – just the core language – besides satisfying my curiosity, I learned what a powerful type system can do for you (and that problems with tooling and packaging can become a deterrent for the whole ecosystem).
- Linux system administration – when given a choice, I run Gentoo ~amd64 on a VPS provider like Linode. I maintain my own package overlay and like to control all the system's software with the distribution's package manager.
- Git – besides the typical usage, I do continuous integration and deployment using git hooks – one in the test repo to run a fast test suite and if that passes, the code is pushed to the production repo where another hook runs the necessary deployment commands.
- uWSGI – in a quest to get the perfect graceful reload for Python web backends, I got the chance to dig into this project's complex functionality and came up with the prize – I figured out <u>a setup</u> that allows me to not lose a single request while the workers are reloaded.

Work history

Sole software developer and system administrator for senatus.net
(January 2014 – Present)

After the demise of our small consulting company, I took over the maintenance and development of <u>senatus.net</u> – a complex social network / magazine / photo and video hosting site built with Django, PostgreSQL, Redis, Nginx, uWSGI, Varnish, Celery, Amazon S3 and CloudFront.

Duties
- everything on the technical side

CTO, Partner – Odeon Consulting Group Pte Ltd
(May 2008 – December 2013)
A small consulting firm, a huge learning opportunity. Our biggest projects were senatus.net, and BAMS2 – a neuroinformatics project focused on brain connectivity data. As a result of working on the latter, which was mostly my baby, I ended up as the second author of a scientific article. I still brag about it.

Duties
- software architecture and development
- system administration
- providing technical guidance for a small team

Education

Victor Babeș University of Medicine and Pharmacy, Timișoara, Romania
(1999 – 2005)
Doctor of Medicine (MD)

Talks

EuroPython 2011 - "django-rdflib and PostgreSQL - the best of both worlds" - actually 2 talks on the same subject, one in English and the other in Italian
EuroPython 2012 - "Turning regular expressions up to eleven" - a lightning-talk about morelia-pcre, my Python PCRE wrapper

Other

I am a Romanian citizen.
I am fluent in English and Italian, a bit rusty in French.
LinkedIn profile
GitHub account
GitHub pull requests