

Motiejus Jakštys

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Interested in: Real time Audio/Video processing, service reliability and automation engineering

Work experience

- **7/2011–now:** Mano Numeris, UAB. Erlang software engineer. Business processes implementation using Erlang state machines. Key requirements: data integrity after possible failures and high verifiability are essential. Skills: producing high quality, well documented and tested code.
- **9/2011–now:** University of Glasgow Students' Representative Council (SRC). Systems engineer. Responsibilities: enhancing server and networking infrastructure. Working on storage cluster and configuration automation for Xen VMs. Focuses: automatic provisioning and failure recoveries.
- **8/2010–11/2011:** Idiles Systems, UAB. Python web developer and CTO. Lead developer of 4-5 team. Making decisions about system architecture. I was the one handling exceptional situations (interesting deployment scenarios, failed migrations, server crashes, ...). Major work on [BeFluentIn](#) and [LiveOpenly](#). Technologies: Django, Pylons, PostgreSQL, Javascript, GIT.
- **7/2009–9/2010:** Jocom, UAB. Lithuanian based company doing GSM termination. Core systems developer and system administrator. Technologies: Linux (Debian, CentOS), FreeBSD, HA MySQL, virtualization solution in Xen and KVM with FreeBSD ZFS-based SAN. Exotic distributed gateway network administration built on customized OpenWRT and OpenVPN. Designed and implemented [SoundPatty](#) real-time audio recognition system (C++) and integrated to Asterisk (JACK API).
- **2007–2009:** HealthyComp, Inc. Search engine optimization engine (PHP, Django).

Programming

- **Python:** since 2008. Websites and other programming ([confident.lt](#), [django-webtopay](#), work...).
- **Erlang (PropEr, mochiweb, mnesia, ...):** from 2011. Current employer.
- **C++:** Olympiads in Informatics from 2004. 2009–2011: [SoundPatty](#).
- **Django, Pylons, Javascript, jQuery, HTML, CSS...** various web development projects 2005-2012.
- **Java:** since 2007. Created distributed [ryanair crawler](#) (on top of Selenium 2), university projects.
- **Android:** since 2011: Mobile Software Engineering projects at university.
- **C:** hobby Linux system programming (cat and mouse game with university cluster administrators).
- **Ruby on Rails ([trool.org](#)), Perl ([AMI library](#) and sysadmin scripts), PHP ([licmail](#)), Delphi.**
- **GIT:** from 2008. Really like this tool and educate others to use it.
- **Test driven development.** I encourage tests-first development.
- Interested in audio codecs, sound transport mechanisms, compression, QoS.

Systems

- **Linux:** since 2006. Very good at Debian, very familiar with Gentoo and OpenWRT. Using actively.
- **FreeBSD:** ZFS-based SAN solution implementations in JOCOM and SRC.
- **Xen, KVM, libvirt:** JOCOM and SRC. Striving for automatic deployment and failure recoveries.
- **Networking knowledge:** ipv4/ipv6 routing, IEEE 802.1Q, iptables, xtables, openvpn, bridging...
- **Chef:** recently (late 2011) started deploying in my own servers.
- **Asterisk 1.2, 1.6.** customization and RT sound recognition application integration via JACK API.
- **MySQL, PostgreSQL, CouchDB:** from 2005, for everything.
- Interested in automatic deployment, scalable and self-recovering systems.

Education

- **2010–2013:** University of Glasgow, BSc of Mobile Software Engineering. Faster route.
- **2009–2010:** Vilnius University, Financial and Actuarial Mathematics (unfinished)
- **2004–2008:** Vilnius Lyceum.

Olympiads, competitions

- 2008 2nd place in prof. J. Matulionis Junior mathematicians' competition.
- 2008 2nd place Junior mathematicians' competition in Šiauliai university.
- 2004, 2005 1'st place in Lithuania Olympiad in Informatics (Pascal).

Languages

Lithuanian: mother tongue, English: fluent, German: good, Russian: beginner.

Personal qualities

I am more than happy to take a task and give it back once it's complete. I work alone easily and learn rapidly. I am considered being responsible, disciplined, well organized. *I love what I do.*

Hobbies

I enjoy being in nature; I often participate and organize hiking, cycling and hitch-hiking 2-5 day trips. Also orienteering sports. Lithuania ski orienteering champion in 2007.

Driving

Categories A and B

Recommendations (contacts available upon request)

Gavin Reynolds Employer at University of Glasgow Students' Representative Council
Bronius Skūpas Leader of Technical committee of International and Lithuanian Olympiads in Informatics.