

Petr Novodvorskiy

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Areas of interest

Distributed fault-tolerant systems, virtual desktop delivery, virtualization.

Professional experience

2013–2014 **Principal Software Engineer**, *Skytap Inc.*, Seattle, USA.

- Amazon Web Service backend for Skytap web frontend to create hybrid public cloud (python, ruby, aws)
- Overhaul of deployment tools and continuous integration system (docker, kubernetes, go)

2007–2013 **Sr. Software Engineer**, *Skytap Inc.*, Seattle, USA.

- Resident Xen kernel hacker, maintaining Xen with custom patches, fixing bugs. (C, x86 assembly)
- Billing and quota system for multi-tenant cloud (python)
- Automated VM Import/Export: implementation for upload system for big images, conversion of VM images from different VMWare and OVF formats (python, ruby)
- VM image deployment management and VMWare ESX (python, java)
- Virtual desktop infrastructure for multi-tenant cloud version 1: simple VNC proxy with recompression of traffic into different video codec and authorization and support for java client (C, java)
- Skytap cloud orchestration and deployment system based on capistrano, debian packages and puppet (C, puppet, ruby)
- Virtual desktop infrastructure for multi-tenant cloud version 2: VDI multiplexing proxy (terminal server) that converts VNC to RDP with Microsoft RemoteFX codec with authorization and support for java and native microsoft clients (C++, java)

Jun 2005–Jul 2007 **Sr. Software Engineer**, *Intel*, Moscow, Russia.

2007 JVM development

- Worked on different parts and bugfixes of Apache Harmony Java VM (DRLVM) (C++)
- Baseline ARM Compiler development for Moxie JVM, porting Moxie JVM to L4/ARM (Java, C, ARM assembly)

Jan 2004–Jun 2005 **Contractor**, *IBM*, Moscow, Russia.

2005 Samba hacker, Post-sales assistant

- Developed build of Samba for embedded systems optimized for low memory
- Bugfixes for Samba for internal deployment
- Supported sales in installation demoing and configuring IBM Workplace and WebSphere

Aug 2003–Dec 2003 **Software Engineer Intern**, *Intel Research*, Seattle, WA.

2003 Denali project at UW with prof. Steven Gribble and prof. Brian Bershad

Jun 2000–Aug **Software Engineer**, *ALTLinux*, Moscow, Russia.

2003 Package maintenance, custom feature development

- Refactored ALTLinux kernel package, support for customized kernel package builds for embedded systems or custom patchsets
- OpenOffice.Org packages maintenance
- Added support for hyphenator to OpenOffice.Org

Education

Academic

2005–2008 **Graduate school, no disseration**, *Moscow State University, Computational Mathematics and Cybernatics dept.*.

2000–2005 **Specialist, Computer Science**, *Moscow State University, Computational Mathematics and Cybernatics dept.*.

1997–2000 **Moscow State School №57.**

Alexandr Shen and Rafail Gordin math class

Non academic

1999–2002 **Maintainer**, *Debian*.

Maintainer of openoffice and various other packages

Other information

Emplyment
status in US

H1-B visa