

CV: System Software Developer/Engineer

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1 Basic info

- **Sex:** Male
- **Date of birth:** 07.04.1983
- **Place of Birth:** Russia (European part)
- **Martial status:** Divorced

2 Jobs

2.1 Companies

2.1.1 Ixonos

Ixonos is a finnish based software development company to create mobile solutions. I'm working in Helsinki, Finland.

Short info:

- **Date:** March 2010 - Present
- **Position:** Software Engineer (Senior Software Engineer in Nokia)
- **Technology backgrounds:** Linux software/kernel development

Currently I'm working for Nokia core linux filesystem team (working with filesystems and linux low level drivers). I cannot told more in case of my contract terms.

2.1.2 Altell ltd.

Altell ltd. is a russian company for software development within networking solutions.

Short info:

- **Date:** May 2008 - February 2010
- **Position:** Team Lead
- **Technology backgrounds:** Linux software/kernel development, microkernel OS development

I worked with open-source project (Jari OS (microkernel RTOS)) to develop, manage and support company's solution needs. I was able to manage a small research and development team (9 developers) and also I made a lot of parts within project, such as filesystem layer, general architecture design, driver development, filesystem porting (from Linux kernel), terminal layer development, driver model development. To check out more info, please take a look at Open source projects section.

2.1.3 CSC Computer Sciences s.r.o.

CSC is a global consulting, system integration and outsourcing company. I worked in the Prague, Czech Republic.

Short info:

- **Date:** February 2008 - July 2008
- **Position:** Senior UNIX Developer
- **Technology backgrounds:** Linux software/kernel development, Oracle OCI

I worked with internal projects and consulting for UNIX-like based project. Also, I've made fixes with old software (C/Lisp). I was need to return to Russia and close my contract.

2.1.4 Zodiac Interactive

Zodiac Interactive is an Emmy winning developer of software for interactive TV.

Short info:

- **Date:** September 2007 - February 2008

- **Position:** Senior UNIX Developer
- **Technology backgrounds:** Linux software development, PowerTV OS development

My job was related to the system software such as memory allocators optimization, system libraries optimization.

2.1.5 Vyata inc.

Vyata inc. is US-based startup project that works with linux-based network solutions.

Short info:

- **Date:** March 2006 - September 2007
- **Position:** Senior UNIX Developer
- **Technology backgrounds:** Linux kernel, debian packages integration, linux networking tools integration and development

I worked with several open-source projects to integrate it to company's solutions (network routers and firewalls based on the GNU/Linux distro).

2.1.6 Franklin Publisher inc.

Franklin Publisher inc. is US-based company with several outsource companies in Russia, I have a job in the St. Petersburg located one.

Short info:

- **Date:** November 2003 - March 2006
- **Position:** Senior Developer
- **Technology backgrounds:** Embedded OS development, CVS/SVN, linux kernel development

I worked in the team related to the internal OS development for embedded devices. I worked on the VFS, hardware drivers, binary formats support, architecture design. In addition I have many tasks with libc (RedHat newlib was used), sneak-gdb (developing EMU for sneak8 platform).

2.1.7 MO Systems Oy

MO System Oy was a finnish software development company with development department located in St. Petersburg, Russia.

Short info:

- **Date:** August 2002 - October 2003
- **Position:** UNIX Software Developer
- **Technology backgrounds:** VCSs(cvs), UNIX IPC (POSIX), openmotif, gtk+, TCP sockets, libxml and other libraries

I was intended to participate in development of the software for targeted to automate software development process (VCS, project plans, IDE integration etc).

2.1.8 VAMI-Automatics ltd.

VAMI-Automatics ltd. is a russian company working in software industrial automatization area.

Short info:

- **Date:** October 2000 - July 2002
- **Position:** Programmer
- **Technology backgrounds:** QNX, GNU/Linux, Sun Solaris, C, MOD-BUS Protocols, FF Automation PLCs, Siemens Sematic

In this company I worked with programming of industrial computers and controllers (Siemens s7 and FF Automation Oy devices). Also, I take a participation with UNIX daemons development (to collect data from PLC controllers, analyse it).

In addition, I take a system administration tasks related to UNIXes (mostly with linux-based).

2.2 Open-source projects

I'm working in open-source project with the following nicknames: Alfeiks, Kaanoken, tirra, madtirra.

2.2.1 Jari Operating System

Jari OS is a free open source project to create/research microkernel multiser-vice real-time OS. Project goal - to create a platform for industrial computers Oses and distributed systems. Currently, there are one commerical solution exist that used this platform as a core.

At this moment, project completely inepended.

Short info:

- **Date:** October 2006 - Present
- **Role:** Team Lead/One of the project founders
- **Website:** <http://jarios.org>
- **Technology backgrounds:** OS development, IDL, ELF, POSIX, UNIX IPC implementation, filesystems ...

Management: Core team (9 developers) and team of volunteers.

Development: low level microkernel stuff(controllers, SMP support), general architecture design, file system layer design and implementation, UNIX IPC implementation (pipes, fifos, shm), implementation of OS specific parts of libc and porting ISO/POSIX functions, system RPC design and implementation, system-wide used IDL design and implementation. Adding ELF format support, porting GNU software to the new platform.

2.2.2 X Neural switcher

X neural switcher(xneur) is a free open source program for automatic (intelligent) keyboard layout changing in the X Window System.

Short info:

- **Date:** 2005 - several months
- **Role:** Developer/Founder of the project
- **Website:** <http://www.xneur.ru>
- **Wikipedia:** http://en.wikipedia.org/wiki/X_Neural_Switcher
- **Technology backgrounds:** X11, natural languages

I found this project, but when I implemented the basic functions I've lost an interest. Currently this project works and development continued by community.

2.3 Open-source projects participation

I participated in gdb-insight, newlib, gcc, linux kernel development, click (C++).

3 Skills and experience

3.1 Tools and computer languages

I'm using GNU software mostly, and GNU/Linux like a system environment.

Tools: gcc, automake, make, binutils, cvs, git, emacs, gdb, qemu (kvm), bochs, minicom, shells (mostly bash)

Computer languages: C, Scheme, C++, Lisp, asm (x86/amd64), Python

3.2 Education

Electrotechnical University of St. Petersburg.

While I'm learning I have a jobs.

3.3 Development

My general experience is a system software development (kernels, subsystem and drivers development) (C), but I have backgrounds with middleware development and application development (a little bit). Currently I'm using Scheme for IDL and prototype development to decrease time used for development.

3.4 Research

My interest in the CS research area: distributed systems, genetic algorithms, next generation of microkernel-based OS.