

# Oleksandr Kravchuk

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## Summary of Experience

Over 2 years in professional software development. Been involved in several projects where I have used various open source technologies on different UNIX-like operating systems.

Main specializations: Linux platform: system administration, application/GUI/system/kernel programming, embedded Linux; Mobile (Android, Maemo).

## Computer Skills

### Programming Languages

- C: ANSI C, C99, GCC, LLVM, Clang 4 years
- C++: GCC, STL, OOAD/OOP (UML, Design Patterns, Refactoring) 2 years
- Python: CLI scripts, GUI, web-development (mod\_python, Django) 2 years
- UNIX scripting languages: shell, sed, awk 2 years
- Perl: CLI scripts, web-development (mod\_perl) 1 year
- Java: Davlink (some "just 4 fun" Android development) 3 months

### Operating Systems

- Linux: administration, application/GUI/system/kernel programming 5 years
- FreeBSD: administration, application/GUI/system programming 1 year

### RDBMS and DB Tools

- MySQL: basic administration, API 2 years
- PostgreSQL: basic administration, API 6 months
- SQLite: basic administration, API 6 months

### GUI Toolkits

- Xlib, Xt, OpenMotif 8 months
- GTK+: C, C++ (GTKmm), Python, Glade/GtkBuilder 6 months
- Qt4: C++, Python, Qt Creator 6 months

### Debugging/Profiling Tools

- GDB, Valgrind, Strace
- kgdb, objdump, addr2line

### Other Software

- GNU Autotools, Automake, Libtool, Sconsm, CMake
- CVS, Subversion, Perforce, Mercurial, Git
- CppUnit, CppCheck, PyUnit

## Career History

### Embedded Linux Kernel Developer

**2010/08/16 — nowadays**

*GlobalLogic, Inc. Customer: Celeno Communications, Ltd.*

Implementation of Wireless (802.11g/n) network Linux drivers and userspace tools for embedded device.

Tools and Technologies: Embedded, MIPS, Networking, IEEE 802.11, Linux kernel 2.6, Busybox, ANSI C, C99, GNU build system, Git.

### Software Developer

**2009/12/21 — 2009/08/13**

*GlobalLogic, Inc. Customer: Medtronic, Inc.*

Healthcare project with classical waterfall model and very formal engineering process, which I have started with my co-workers on the GL side from the scratch. Design and implementation of Python software for verification functionality of embedded medical device. Responsibilities:

- writing high-level and detailed software design specifications;
- implementation python software basing on this specifications;
- design specifications and source code review;
- teaching new team members and assisting them in their tasks;
- direct communication with customer and remote part of the team from U.S.

Tools and Technologies: Embedded, MicroC/OS-II, C, Python, RequisitePro, ClearQuest.

### Junior Software Developer

**2009/09/10 — 2009/12/17**

*SoftServe, Inc.*

Worked on several projects as junior C/C++ software developer. Was doing a variety of small tasks for different projects. This instability was the reason for the dismissal.

Tools and Technologies: C, C++, Bullseye, CPPUnit, Apache Ant, Scons.

### Junior Software Developer

**2009/07/23 — 2009/09/09**

*SoftServe, Inc.*

Ported few big enterprise applications from GCC 3.x to GCC 4.x and from Red Hat Enterprise Linux 3 into CentOS 5.

Tools and Technologies: Red Hat Enterprise Linux 3, CentOS 5, GCC 3, GCC 4, OpenMotif, GNU Autotools, Automake.

### Test Automation Engineer

**2009/05/13 — 2009/07/22**

*SoftServe, Inc. Customer: Wireless Generation, Inc.*

Written automation tests for testing graphical user interface of Qt application for Nokia N810 Internet Table. Scrum was used. Also was responsible for:

- continuous integration;
- build process automation;
- source code review;
- building Debian binary packages;

Tools and Technologies: Nokia N810, Maemo, Scratchbox, Python, Qt, Froglogic Squish, Hudson, Scons.

**Junior Software Developer****2009/01/26 — 2009/04/27***SoftServe, Inc.*

Implementation and supporting web portal for the large enterprise application. Main application was responsible for processing large amounts of enterprise data (some statistic information and e-mail messages), and the web front-end was created to control the processes and show work results.

Tools and Technologies: FreeBSD, Perl, HTML, JavaScript, MySQL, Apache 2, mod\_perl.

**Junior Software Developer****2008/08/11 — 2009/01/14***SoftServe, Inc. Customer: Integrated Computer Solutions, Inc.*

OpenMotif library supporting:

- bug fixing;
- implementation of demo applications for new GUI widgets;
- building binary packages for different Linux distributions;
- writing GNU Autotools scripts.

Tools and Technologies: Linux, Solaris, ANSI C, Xlib, Xt, OpenMotif, GNU build system, Valgrind.

**Junior System Administrator****2007/09 — 2008/05***Ternopil National Economic University*

Administration of Debian GNU/Linux desktops and servers used in educational process. Maintained university computer network at "IIT" department.

Tools and Technologies: Debian GNU/Linux, MySQL, Apache 2, vsftpd, squid.

**Community Experience****Blogs**

<http://www.debian-administration.org.ua>

Main author of most popular Ukrainian blog about Debian GNU/Linux administration.

<http://buffer-overflow.org.ua>

Personal blog about software development and information security.

<http://www.rozrobka.com/profile/sashko/>

Active member of Ukrainian software developers community rozrobka.com.

## Trainings

**Linux kernel development**  
**05/2010 — 08/2010**

**GlobalLogic Embedded Linux Center**

Professional long-term training on Linux kernel development, with real practice tasks and personal mentor.

## Education

**Software Engineering**  
**2007 — 2008**

**Ternopil National Economic University**

Left university after third course, because I was boring... Maybe I'll be back to my BA degree after we fundamentally change our educational system.

**Computer Science**  
**2003 — 2007**

**Rivne Economic-Humanitarian and  
Engineering College**

Passed coursework of programming and final diploma with rating A (perfectly).

## Languages

Ukrainian — native, good knowledge of technical language, experience in technical documentation translation and software localization.

Russian — advanced level, continuous experience in communication with native speakers.

English — intermediate level, continuous experience in communication with native speakers, good communication skills (spoken and written).

Polish — pre-intermediate level.

Belorussian — elementary level.