Pavel Shved

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EXPERIENCE

Senior Software Engineer   **Oct 2011 – Current**
ROSA
◆ Supervised and participated in a study of development processes in major Linux distributions.
◆ Fixed a dozen of bugs in core components of Mandriva Linux distribution;
◆ Helped to develop and deploy two Ruby on Rails website projects that had manpower problems, taught one of my peers how to program with Rails.

Research Intern/Developer   **Sep 2007 – Oct 2011**
Institute for System Programming of the Russian Academy of Sciences

Linux Driver Verification program   **Apr 2009 – Oct 2011**
◆ Improved BLAST, an orphaned open-source tool for static analysis of C programs, the tool itself written in OCaml. Increased its speed by a factor of 30, designed and implemented many extensions to the static verification algorithms used in BLAST; maintain the tool as of now;
◆ Set up a custom continuous build server that runs tests before commits and e-mails on failures;
◆ Designed how to run our application in a cloud; implemented the task scheduler and the task exchange infrastructure in Ruby over the AMQP protocol;

Linux Standard Base infrastructure project   **Sep 2007 – Mar 2009**
◆ Designed and implemented a tool to automatically harvest Linux C++ headers, analyze them, and generate their HTML layout (sample); used a MySQL database with millions of rows;
◆ Researched C++ binary compatibility, published a paper about it; it's linked from GCC manual.

Google
Summer of Code 2009 Student   **May 2009 – Aug 2009**
◆ Prepared more than 50 patches to the source code of OpenJDK7, which was written in C++ and Java, to make it compliant with Linux Standard Base rules;
◆ Collaborated with the Linux Standard Base team in the US remotely.

EDUCATION
Moscow Institute of Physics and Technology
M.S. Applied Mathematics and Physics   **2008 – 2010**
        Specialization: System programming; GPA: 3.5/4.0
B.S. Applied Mathematics and Physics   **2004 – 2008**
        Specialization: Applied mathematics; GPA: 3.5/4.0

SKILLS AND QUALITIES
◆ Programming languages: C++, Ruby, Perl, C, Bash; familiar with OCaml, SQL, Python, Pascal;
◆ Proven ability to learn new programming languages for a project;
◆ Adept of best engineering practices: deployed and maintained Git repository and bug tracker, set up nightly builds, volunteered as a ScrumMaster;

PERSONAL ACCOMPLISHMENTS
◆ Run a programming blog at http://coldattic.info/ with 2300+ visits a month. Developed its backend in Ruby on Rails on my own, along with personal image gallery and video storage;
◆ Authored and co-authored 1 journal paper and 5 conference publications;
◆ Was ranked #513 out of 500,000+ users on StackOverflow.com, a programmers' experience sharing site (as of January 2011);
◆ Designed a piece of C++ code that revealed a bug in G++ compiler (#41703).
◆ Participated in Competition on Software Verification'12 with BLAST, achieving the 5th place.