Egor Tensin

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E-mail: Egor.Tensin@gmail.com
Web: https://egor-tensin.github.io/
Tel.: +7 (911) 982-06-81
Address: 7 Koroleva prospekt, apt. 378 • Saint Petersburg • Russia • 197341

Experience

September 2014 – present	*Software Engineer* at Netwrix Corp. (www.netwrix.com)
April 2012 – May 2014	*Performance Engineer* at EMC Corp. (russia.emc.com)

I developed and maintained a tool for disclosing, analyzing and solving storage system performance issues, specifically process & thread synchronization issues. The tool was used to increase the performance of a few storage systems by a few percent.

I also troubleshooted general performance issues within enterprise storage systems, including profiling, benchmarking, etc.

Key skills & technologies employed:

- C++ programming (inc. C++11 & Boost),
- C & x86(-64) assembly language programming,
- cross-platform development using CMake,
- Microsoft Windows programming using WinAPI,
- POSIX-compliant system programming,
- Microsoft Windows & Linux kernel module programming,
- debugging Microsoft Windows kernel modules using WinDbg,
- profiling using perf, Microsoft Windows Performance Toolkit and Intel VTune Amplifier.

May 2012 – September 2013	*Software Engineer* at Lanit-Tercom, Inc. (www.lanit-tercom.ru)

I took part in a R&D on the impact introduced to the performance of a storage system by process & thread synchronization issues. A prototype of a tool for disclosing, analyzing and solving specific storage system performance issues was developed.

Key skills & technologies employed or studied:

- C & x86(-64) assembly language programming,
- Python programming,
- Microsoft Windows programming using WinAPI,
- Microsoft Windows kernel module programming,
- debugging Microsoft Windows kernel modules using WinDbg,
- x86(-64) architecture (interrupts, caches, memory barriers, atomic operations, etc.),
- undocumented Microsoft Windows features (system service dispatching, etc.).

Education

2009 – 2013	*Bachelor of Computer Science* at SPbSU (eng.spbu.ru)

During my education, I've been focusing on the following topics:

- x86(-64) architecture (including writing a term paper "Verification of a x86-64 disassembler"),
- x86(-64) microarchitecture (including working on my bachelor thesis "Attacking AES in a cloud using CPU caches").

Programming Languages

- C, x86(-64) assembly
- C++ (inc. C++11 & Boost)
- Python

Development Tools & Technologies

- Microsoft Visual Studio
- CMake, GNU Make
- CMD, GNU Bash, PowerShell
- AccuRev, Apache Subversion, Git, TFS
- GDB, WinDbg
- perf, Xperf, Intel VTune Amplifier

Languages

- Russian — mother tongue.
- English — B2 (upper intermediate).

Other Tools & Technologies

- LibreOffice, Microsoft Office
- CygWin
- LaTeX