Andrey S. Mikhalchuk

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(**Willing to relocate**)

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SUMMARY

- ✓ Looking for a senior software developer or team lead position related to network-oriented C/C++ software development for heterogeneous environments
- ✓ Excellent experience in full-cycle application development, web development, database programming, embedded systems programming, GUI development for Windows, system administration and robotics
- ✓ Summa Cum Laude MS in Computer Science, 12+ years of experience in IT, patent applications
- ✓ Complete portfolio is available at http://andrey.mikhalchuk.com/about/

SKILLS

Primary Expertise: Linux, Networks, Embedded systems, LAMP, Network monitoring, traffic interception and analysis, GUI development, VoIP, e-commerce, network security
Programming: C/C++ for Unix/Linux and Windows. (GCC, Borland C++ Builder, Microsoft Visual Studio), Java, CORBA (Orbacus), PHP, Symfony, Wordpress, Smarty
Methodology/Processes/Tools: RUP, Agile, PSP/TSP, Subversion, Bugzilla, UML, MS Project, good project planning and maintaining skills
Database design and development: MySQL, Postgres, SQLite, MS Access, Doctrine
Other skills: Coaching and leadership, System/network administration (both Linux and Windows), Graphic Design, Data Analytics, Robotics, Unit/Regression Testing (CppUnit, Junit, Unit)

PROFESSIONAL EXPERIENCE

Present time	Senior Software Developer / Systems Analyst – Packet411/ MineStream Software

01/2005
 	
North Potomac, USA
 	
Gaithersburg, USA
 	
Moscow, Russia
	✓ Designed, managed development and developed major part of a unique network content monitoring device with the following characteristics:
	  o The device records instant messages, emails, voip conversations, web access and more, analyzes the content, highlights threats, provides advanced traffic and content statistics and blocks inappropriate content
	  o The device is autoconfigurable, requires zero installation effort and invisible in the network. A version of the device also supports wireless networks. The software developed works on multiple platforms, including x86, x64 PCs, MIPS/Broadcomm - based routers, Xscale-based bridge
	  o The system exists in 4 versions scalable from homes to enterprises with minimal effort. Stores data locally and remotely. Based on patent-pending technologies
	✓ Managed contractors (including overseas), co-authored patent applications
	✓ Designed and implemented company website (including the online store)
	✓ Shared development responsibilities with systems analysis, architecture as well as other responsibilities
	✓ As a member of a 5-developer team participated in development of a distributed heterogeneous network management system
	✓ Designed and developed the following components of the system:
	  o CORBA-based IPC framework for Java and C++ components running on different platforms (Linux, Windows)
	  o Intuitive and user-friendly GUI (prototyped in Delphi and implemented in C++ Builder)
	  o System test harness
	  o Benchmarking tools
	  o Reporting system based on Crystal Reports
	✓ Established simple software development processes in the company
	✓ Was involved in development and testing of all system components including database connectivity (MySQL/JDBC)
	✓ Technologies: GNU C/C++, Borland C++ Builder, Postgres, MySQL, SQLite, Java,

Corba (Orbacus), Eclipse, PHP, osCommerce, Linux(custom versions based on OpenWRT, SuSE and Voyage), Solaris, WRAP/ALIX/Soekris/WRT54G/Yoggie and other embedded PC and router platforms

01/2005 **01/2004** Moscow, Russia	**Senior Software Developer – IPCB.net, Inc** ✓ Developed several Windows applications, including standalone softphone (H.232 VoIP phone), ActiveX version of the same softphone, plugin to popular Instant Messenger that provided VoIP features and LAN software and contacts update tool (Microsoft Visual C++) ✓ Managed local network + server farm in overseas collocation (Linux, Windows) ✓ Developed a fraud prevention system for online billing system that reduced the amount of fraud by at least 10 times (PHP, MySQL, Oracle) ✓ Developed a content-retrieval and parsing tool (Perl)
01/2004 **01/2002** Moscow, Russia	**Senior Software Developer – CQG, Inc** ✓ As a member of a small team participated in design and implementation of custom high-speed IPC framework for a distributed trading system (Microsoft Visual C++) ✓ Coordinated UML training and everyday UML usage in company ✓ Got PSP/TSP certification, good knowledge of trading systems, autotrading, markets specifics ✓ Supported data collection plants for Euronext, Liffe and Frankfurt Stock Exchange
10/2001 **05/2000** Moscow, Russia	**Chief Technology Officer – iMulet.com** ✓ Inventor, chief architect and project manager of iMulet P2P architecture and Instant Messenger application ✓ Designed and participated in development of a complex (>1000 classes) Java-based multimedia communication platform with features similar to Skype ✓ Managed team of 15 developers using Microsoft Project and RUP methodology
05/2000 **02/1994** Moscow, Russia	**Other positions** ✓ Worked in various small to medium scale companies in Russia including Sun Microsystems, Lanit, Advanced Design Team and REDLAB ✓ Projects were primarily related to software development in C++ and Java for Solaris, Linux and Windows ✓ Performed various tasks as a project manager, systems engineer and system administrator.

EDUCATION

06/1998	M.S. Summa Cum Laude in Applied Mathematics and Computer Science Moscow State University, Moscow, Russia. Recognized in the US and Australia

OTHER

✓ Co-authored the following US patent applications:
  o Computer network based secure peer-to-peer file distribution system (20030144958)
  o Split client-server software development architecture (20020174193)
  o Internet Activity Evaluation system (20090174551)
✓ Designed and implemented over a dozen websites including but not limited to http://www.pizza.com, http://www.robostuff.com, http://www.publicquotes.com, http://www.shutterbloom.com, http://andrey.mikhalchuk.com, http://www.yurikim.ru, http://sunsite.cs.msu.su (old version)
✓ As a part of my hobby (robotics) designed and implemented several hardware hacks including, but not limited to: "Routerbot" (router turned into robot), "Pleomote" (controlling Pleo robotic toy via Wii nunchuck via wireless interface) and "The most "hacked" router in the world ever"