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| **Summary** | Excellent expertise in software development of applications and services both on Windows and Unix-like systems. Top competence areas are statistics and monitoring, anti-malware and security, data-driven platforms, UI development, GSM core network protocols. System programming in C++. Strong algorithmic and mathematical background.   Great experience of working in international teams and with world-famous manufacturers of mobile phones, telecom equipment and security software. | | |
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| **Project Experience** | | | |
|  | Kaspersky Lab | | |
| January 2017 – present | Position:  Project: | Senior Software Engineer  Anti-virus software updates, statistics and reporting | |
| Dynamic and fast-growing project of User Experience Renovation Initiative in the anti-virus infrastructure services. Full stack software development: front-end on Angular 4, back-end on .Net with SQL Server, integration of Angular CLI with Visual Studio 2017 and IIS/MVC. The project is currently in active development stage: new frameworks and tools, a lot of UI development, web-page design, UI layouts, graphics and workflow.  Technologies: *Angular 4, Typescript, Npm, Webpack, Kendo UI, HTML5/CSS3, MVC 5, C#, Entity Framework, IIS, SQL Server, Visual Studio 2017, Git* | | |
| September 2012 – December 2016 | Position:  Project: | Senior Software Engineer  Anti-virus software updates, statistics and reporting | |
| Designed and developed custom business intelligence system of statistics and analytical reporting on anti-virus update process. Implemented back-end services in C# to collect stream events from various sources and transform them with ETL algorithms into no-SQL storage. Mastered Splunk to index and search over large volumes of data, composed and optimized queries for statistical calculations. Developed monitoring subsystem as Web application using Angular, Bootstrap, HTML5, .Net MVC 5. After its successful release, the system helped to reduce costs of product updates by 20%, increase update delivery time (key SLA metric) for major components by up to 50% and improve identification of problem areas by 3 times.  Technologies: *C#, .Net, MVC 5, IIS, Angular 1.5, Bootstrap 3, Javascript, Splunk Enterprise, Sideview Utils, Visual Studio 2013/2015, TFS* | | |
| September 2010 – September 2012 | Position:  Project: | Software Engineer  Anti-virus software updates, delivery and replication | |
| Developed a distributed system which replicates anti-virus software updates from the headquarters to download servers all over the world. Implemented multistreaming upload feature for heterogeneous environment using rsync as a transport and WinAPI multithreading/IPC in the host application, increased the upload speed to distant servers by 4 times. Optimized performance of the incoming request processing module (C++ algorithms, T-SQL queries, indexes), made it 3 times more responsive. Tuned up SQL server administration infrastructure: regular database backups and defragmentation jobs. The project was successfully completed and provided the company with fast and reliable solution in the business-critical software update process.  Technologies: *Visual C++, STL, WinAPI/MFC, COM, T-SQL, OLE DB, MS SQL Server 2008, cwRsync, FreeBSD, Unix shell scripting, Visual Studio 2010, TFS 2010, UML, Enterprise Architect 8* | | |
|  | Teleca | | |
| October 2008 – August 2010 | Customer:  Position:  Project: | Sony Ericsson  Senior Developer  Applications and services for the XPERIA-series mobile phones | |
| Developed several key features: an application that extends task management in Windows Mobile and a set of services that enable and configure GPS assistance. Analyzed requirements, created and presented prototypes to the customer on the U.S. site, designed UI: screen layouts, event flow, title semantics, UI consistency. Performed full feature development with Visual Studio, including class design, coding, localization and deployment. Worked with Windows Mobile SDK, GPS modem driver API, AGPS and SUPL protocol, multithreading with WinCE API, algorithms and data structures in STL and MFC. Released the applications with excellent customer feedback.  Technologies: *Windows Mobile, WM SDK 6.1/6.5, AGPS, SUPL, Visual C++, STL, MFC, WinCE API, Platform Builder, UI design, UML, ClearCase, ClearQuest* | | |
| January 2008 – September 2008 | Customer:  Position:  Project: | Sony Ericsson, Motorola  Team Lead  PC connectivity solution | |
| Managed a development team of 6 engineers, supervised pre-studies, design proposals, implementation approaches and code reviews. Coordinated development and completed significant product improvements: Outlook and Lotus Notes tag extensions on PC side for a more accurate synchronization of contacts and e-mail, optimization of the synchronization database, centralization of error handling in several compact modules. Formalized and improved defect handling process, automated and simplified the evaluation of the defect statistics in the team. Composed a training course over the project and successfully mentored 4 junior engineers.  Technologies: *Windows XP/Vista, Visual C++, Win32 API, COM, ATL, MFC, SyncML, Outlook, MAPI, Lotus Notes, Access, vCard/vCalendar, ClearCase, Bugzilla* | | |
| December 2006 – December 2007 | Customer:  Position:  Project: | Sony Ericsson, Motorola  Senior Developer  PC connectivity solution | |
| For PC connectivity solution, a suite of Windows applications to synchronize mobile phone content with a computer, developed COM components to enable phone synchronization with new PIM applications appeared in Windows Vista (Windows Contacts and Calendar). Designed and implemented packet fragmentation modules of the SyncML protocol. Customized vCard/vCalendar parsers to support changes in new phones. Analyzed and corrected defects.  Technologies: *Windows XP/Vista, Visual C++, Win32 API, COM, ATL, MFC, SyncML, Outlook, MAPI, Lotus Notes, Access, vCard/vCalendar, UML, ClearCase, Bugzilla* | | |
|  | Mera Networks | | |
| September 2005 – December 2006 | Customer:  Position:  Project: | Ericsson AB  Software Developer  Telecom Signaling Platform, GSM core network | |
| Developed Network Redundancy system installed on geographically duplicated GSM nodes and incorporates SS7 protocol stack, CORBA middleware with C++/Java API and servlet-based web interface. Created C++ tools which enabled SS7 statistics and alarm services to the platform management and application layers, adapted them to support Sigtran protocol. Significantly improved CppUnit test coverage with Purecov and memory handling with Purify, created detailed documentation. Raised the component code quality two levels up in the enterprise software quality scale.  Technologies: *Solaris, Linux, GSM, SS7, Sigtran, C++, Unix shell (bash/tcsh), Java, J2SE, CORBA, UML, ClearCase, Rational Pure Tools, CppUnit, Doxygen* | | |
| **Education** | Nizhny Novgorod Technical University  Computer Science, Master  Computer engineering, programming, OS internals, networks, dynamic system control, optimization methods, probability theory, algorithms, mathematics | | |
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