

Grigory Sokolov

Senior Software Engineer at Kaspersky Lab

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Summary

Excellent expertise in software development of applications and services on Windows and core network solutions on Unix.

Top competence areas are data synchronization, statistics and monitoring, anti-virus software, mobile phones, location-based services, UI development, GSM core network platforms and protocols.

Strong knowledge of object-oriented analysis and design, UML. Skilled in C++ and C# programming languages. Competent in version control and issue tracking systems.

Great experience of working in international teams and with world-famous manufacturers of mobile phones, telecom equipment and security software.

Current objective is technical leadership and architecture in the application development area.

Top areas: data synchronization, statistical services, anti-virus updates, UI development, LBS and GPS, GSM server platforms.

Tags: Windows, C#, .Net, Entity Framework, SQL Server, Angular, Typescript/Javascript, Npm, Webpack, Splunk, C++, STL, Win32 API, COM/ATL/MFC, Unix/Linux, Cross-compiling, Shell scripting, GSM, SS7, Visual Studio, TFS, Git, Purify/Purecov, ClearCase

Experience

Senior Software Engineer at Kaspersky Lab

January 2017 - Present

Project: Kaspersky Infrastructure User Experience

Great, 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. A lot of UI development, web-page design, UI layouts, graphics and workflow.

Technologies: Angular 2/4, Typescript, Npm, Webpack, Kendo UI, HTML5/CSS3, MVC 5, C#, Entity Framework, IIS, SQL Server, Visual Studio 2017, Git

Senior Software Engineer at Kaspersky Lab

September 2012 - December 2016 (4 years 4 months)

Project: Anti-virus software update statistics and monitoring

Designed and developed 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 modern client-side technologies such as 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

Software Engineer at Kaspersky Lab

September 2010 - September 2012 (2 years 1 month)

Project: Anti-virus software update delivery and replication

Developed a distributed system which replicates anti-virus software updates from the headquarters to local 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. The project was successfully completed and provided the company with fast and reliable solution in the business-critical software update process.

Technologies: Windows 7/Server 2008, Visual C++, STL, WinAPI/MFC, COM, T-SQL, OLE DB, MS SQL Server 2008, FreeBSD, Linux, Unix shell scripting, Rsync, Visual Studio 2010, TFS 2010, UML, Enterprise Architect 8

Feature Lead at Teleca

October 2008 - August 2010 (1 year 11 months)

Project: development of applications and services for the Windows Mobile communicators

Customer: top-5 mobile phone vendor

Coordinated development of several major features: an application that extends task management in Windows Mobile and a set of services that enable GPS assistance. Analyzed requirements, created and presented prototypes to the customer on-site in San Francisco Bay Area. Developed the applications with Visual Studio, including code design, programming in C++, localization with MUI and deployment with CAB. Designed UI: screen layouts, event flow, title semantics, UI consistency. Released the products with positive customer feedback and many accolades.

Technologies: Windows Mobile, WM SDK 6.1/6.5, AGPS, SUPL, Visual C++, WinCE API, MFC, Platform Builder, UI design, UML, ClearCase, ClearQuest

Team Lead at Teleca

January 2008 - September 2008 (9 months)

Project: development of Windows applications to synchronize mobile phone content with a computer

Customers: top-5 manufacturers of mobile phones

Accomplishments:

Managed a development team of 6 engineers, supervised pre-studies, design proposals, implementation approaches and code reviews. Analyzed and estimated feasibility issues related to new functionality, discussed the analysis outcome with the customer. 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, vCard/vCalendar, PIMs, UML, ClearCase, Bugzilla

Senior Software Engineer at Teleca

December 2006 - January 2008 (1 year 2 months)

Project: development of Windows applications to synchronize mobile phone content with a computer

Customers: top-5 manufacturers of mobile phones

Accomplishments:

Developed COM components to enable phone synchronization with new PIM applications appeared in Windows Vista. Designed and implemented packet fragmentation modules of the SyncML protocol.

Customized XML configuration parsers to support new phone models. Analyzed and corrected defects.

Technologies: Windows XP/Vista, Visual C++, Win32 API, COM, ATL, MFC, SyncML, Outlook/MAPI, vCard/vCalendar, PIMs, UML, ClearCase, Bugzilla

Software Designer at Mera

September 2005 - December 2006 (1 year 4 months)

Project: development and support of the signaling software for the GSM server platform

Customer: top-3 telecom equipment&software manufacturer

Accomplishments:

Developed C++ tools which enable SS7 statistical and alarm services to the platform management and application layers. Maintained network redundancy suite, based on SS7 protocol and CORBA middleware. Significantly improved unit test coverage with CppUnit/Purecov and memory handling with Purify, created detailed documentation. Raised the component code quality level to a higher rank in the enterprise software quality scale.

Technologies: Solaris, Linux, GSM/SS7, UML, C++, Unix shell (bash/tcsh), CORBA, ClearCase, Pure Tools, CppUnit

Education

Nizhniy Novgorod State Technical University named after R.Y. Alekseev (NSTU)

Master, Computer Science, 2000 - 2007

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