

YULIYA SHULMAN
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SUMMARY:

Over ten years of experience in object-oriented design and development of application software in areas of database, graphic user interfaces, data collection, processing, and analysis, and mathematical simulation. Reputation for strong performance and meeting deadlines. Organizational, analyzing, and problem-solving skills. Worked closely with end users. Good team player. Experience in leading a development group.

SKILLS:

Languages: PHP 5, JavaScript, JQuery, AJAX, HTML, CSS, SQL, C++, UML, C, Korn Shell language, Pascal, FORTRAN, Assembler.

OS: MS Windows, HP UNIX, Sun Linux, MS-DOS, Mainframe IBM 1031, 1081

Tools: WordPress, Joomla, Vbulletin, b2evolution, MFC, STL, MS Visual Studio, RPC, Windows Installer (WIX), Rogue Wave Tools.h++ library, Extended C++ (ORB/CORBA by Vertell, formerly Expersoft), XpsTools class library, SVN, Perforce, CVS, AccuRev, and SABLIME configuration management tools, Windbg, GNU debugger, gmake, and UNIX nmake utility.

DBMS: MySQL, SQL Server, Progress, Oracle, SOLID.

EXPERIENCE:

Sept. 2008- **Independent contractor designing and developing websites**

- present

PHP 5.0, PHP 4.0, MySQL, JavaScript, AJAX, JQuery, CSS, HTML, image editing software (GIMP, PhotoShop), Flash, CMS (WordPress, Joomla) , blog (WordPress, b2evolution), and forum (VBulletin) customization.

Please check <http://www.YesIWeb.com/> for up-to-date information. Additional information and references are available upon request.

Aug. 2007- **Senior Software Engineer, AccuRev; Lexington, MA**

July 2008 C++, MySQL, ProgressDB, MS Visual Studio, Windows, UNIX (variety of platforms including Linux and Solaris)

- Participated in all aspects of the agile lifecycle of AccuRev SCM tool: did product research, design, development, integration testing, performance profiling, and troubleshooting. The product is a Software Configuration Management tool and consists of the client side (client software, GUI, and CLI) and the server-side application that manages all streams and file versions.
- Participated in product research for a commercial database to replace the present proprietary nonrelational database. Designed and developed data layer to isolate the application from the database specifics. Designed and developed API to allow the application to work seamlessly with any of the number of select databases.

Mar. 2005- **Senior Software Engineer, Iron Mountain, formerly Connected; Southborough, MA**

Mar. 2007 C++, SQL, MS Visual Studio, MFC, RPC, SQL Server, Windows Installer (WIX.), Windows

- Participated in all aspects of the lifecycle of Connected® Backup/PC product: wrote functional specifications, did scoping, design, development, integration testing, and troubleshooting. The product is a data backup software and consists of the client side (the agent that runs the backup on the customer's computer,) server side (data center that manages all the backups,) websites to manage customers' accounts, and reporting database.
- Participated in design and development of a reporting database for a new release of the product. The data was copied from the existing production databases using scheduled jobs. Unlike other databases, the reporting DB was going to be exposed to the customer; a set of stored procedures was developed to allow customers to view their data only and protect other customers' data from unauthorized access. A set of sample SQL scripts was developed to allow customers running most popular reports; they could add whatever other queries they wanted. (SQL, MS SQLServer.)
- Lead a joined effort between Connected and EMC² on improving the way Connected® Backup/PC utilizes various features of Centera device; wrote the functional specification, designed the feature, and implemented the changes. The goal was to utilize the Purge() function of Centera API instead of Delete() used at the time, thus bypassing Garbage Collection to improve performance. The work involved redesigning the server-side HSM (hierarchical storage

management) component to allow maintaining separate threads to write and to purge, modifying RPC calls to support the change, and making changes to the Setup component to prompt for new data and save it in the computer registry (C++, MFC, MS Visual Studio, multi-threaded programming, Centera API.)

- Developed the client side and parts of server side of bandwidth throttling feature. The feature controlled the amount of data sent from the client to the server during the backup so as not to monopolize the network. The server sent to the client message containing the current allowed bandwidth. The client was responsible for throttling the amount of data transmitted, rejecting a backup if not enough bandwidth was available, rescheduling if the rejected backup, if necessary, and sending bandwidth statistics to the server. (C++, MS Visual Studio, RPC, SQL.)
- Wrote functional specifications and scoped network drive backup and restore feature. The features was to allow backup and restore of network drives as opposite to local drives. The main problem was the ability to read file security over the network (MFT.) The feature was dropped due to marketing considerations before it came to the design and prototyping stage.
- Developed the installer component of the product using Windows Installer (WIX.)
- Participated in development and troubleshooting of the existing product.
- Was in charge of a team of developers in integration testing of a major release of the product.

Jan. 2004- **Senior Software Engineer (contractor,) Digimarc ID Systems; Burlington, MA**

Mar 2005 C++, MFC, SQL, MS Visual Studio, Oracle 9i, SOLID, Windows Command Shell language, Windows

- Designed and developed database and Data Layer component for Driver License Issuance System. (C++, MS Visual Studio, SOLID DB.) Driver License Issuance System is the software used by a DMV office to process, store, and retrieve customer data to issue driver license and various state IDs. The usual setup included a server, on which the DB run, and up to 16 workstations that run client software to process data, take photographs, and print requests, etc.
- Wrote database update scripts and DOS shell scripts to execute them. (SQL, Windows Command Shell.) The Installer component (written in InstallShield) called an appropriate Common Shell script, which, depending on the version of the existing DB and on the input parameters called appropriate DB upgrade scripts.
- Quickly adapted database and Data Layer functionality for ever-changing customer needs.
- Designed data structures and developed business logic and UI for a new feature of the Admin component. (C++, MFC, MS Visual Studio, multi-threaded programming.)
- Researched MS SQL Server capabilities and wrote functional specification document for a business proposal for a prospective customer.
- Lead a team of developers and QA engineers in fixing high-priority bugs in order to get ready to the user acceptance testing.
- In a very limited time set up an entire test environment to be used by the QA team. Worked closely with the QA team to provide steady working environment.

Sep. 2001- Family leave for taking care of small children.

Dec. 2003

Aug. 2000- **Senior Software Engineer, Goldwire Technology. Waltham, MA**

Sep. 2001 C++, SQL, CVS configuration management, GNU debugger, gmake, Linux, Sun, ORACLE

- Designed, developed, and tested object-oriented application program interface that implemented business logic for various configuration management commands, which could be invoked by the customer from command prompt as well as from GUI. Developed and tested command line interface for said commands. (C++, SQL.)
- Participated in design, developed, and tested multi-threaded, object-oriented framework subsystem for Formulator – network configuration tool, which involved adding new functionality to different kinds of the existing collection classes. (C++, SQL.)
- Participated in all aspects of software life cycle that included writing feature descriptions, providing estimates, designing, developing, and testing software, coordinating testing with the QA team, and troubleshooting.
- Re-designed the whole product to assemble in one place all constants and definitions used throughout the code and to make them accessible to all modules.
- Wrote design documentation.
- Reviewed user documentation and suggest numerous changes that lead to more clearness and accuracy.

Feb. 1996- **Contractor, became an employee (MTS) in February, 1998, Lucent Technologies. Columbus, OH**

Aug. 2000 C++, UML, RogueWave Tools.h++, STL, Extended C++ (ORB/CORBA by Vertell, formerly Expersoft), XpsTools class library - integration of the two aforementioned class libraries, SQL, Korn Shell language, SABLIME configuration management tool and UNIX nmake utility, HP UNIX

- Designed, developed and tested object-oriented subsystem for alarm and periodic data normalization of NETMINDER™ - Network Traffic Management product for telecommunication network. The data was received directly from the switch, stored, processed and forwarded to another process for future use. Worked on similar functionalities for various interfaces including Bellcore Message Router, EMM, 5ESS etc. Participated in all aspects of software life cycle that included reviewing clients' specifications, feature descriptions and requirements documents, providing estimates, designing, developing and testing software, generating test plans, coordinating testing of individual software modules, integrating those modules into the system and troubleshooting.
- Lead a team of developers in design and implementation of a data collection feature of a new release of the product.
- Participated in development of other parts of the same system such as data analysis, user interface and reports generation.
- Ported the whole product from CC (C-front) compiler and HP-UX 10.20 to aCC compiler and UNIX 11. The work included creating and maintaining two build environments on two machines with the same source code to allow other developers keep working in parallel with the port, communicating with third-party vendors and making changes to the source code to make the software previously created by other developers for CC/UNIX 10.20 environment to build under aCC and run on UNIX 11.0.
- Wrote design documentation.
- Participated in reviewing user documentation.

May. 1991- **Senior Programmer Analyst, Cad Comp Ltd. (Computerized Catalogs). Jerusalem, Israel**

Nov. 1995 Borland C++, C, SDK "ZINC" 3.6 (MS Windows SDK type library), memory testing software "Memcheck", MS-DOS.

- Designed and developed graphic user interface for computerized catalogs of mechanical components.
- Adapted the system to meet requirements of various end users.
- Participated in design, development, implementation, and testing of software for building drawings, displaying them, and saving in CAD formats.
- Worked closely with developers as well as with mechanical engineers.

Jul. 1989- **Programmer Analyst, Institute of Hydrometeorology, St. Petersburg, Russia.**

Feb. 1991 UNIX, MS-DOS, Borland C 2.0.

- Designed and developed software for detecting data corruption in large volumes of actual meteorological data.

EDUCATION:

Bachelor of Science in Mathematics, Polytechnic University, St. Petersburg, Russia 1985-1989

Master of Science Computer Science Program, Polytechnic University, St. Petersburg, Russia 1989-1991

SQL Programming and Relational Database Design – full-time 2-day study by Hands On Technology Transfer, Inc., 2007

Technical Writing - 18-hour study (6 sessions) by John Mercer of Mercer Writing, 2005

UNIX Inter-Process Communications - a full-time 3.5-day study by Learning & Performance Center, Lucent Technologies, 2000

Programming In Java - a full-time 5-day study by Learning & Performance Center, Lucent Technologies, 1999

Object-Oriented Design Patterns - a full-time 3-day study by Learning & Performance Center, Lucent Technologies, 1998

Memory Management, Exception Handling and Other Advanced C++ Language - a full-time 3-day study by Learning & Performance Center, Lucent Technologies, 1997.

Network Traffic Concepts - a full-time 5-day study by Bellcore Training and Education Center, 1996