Viktor Velychko

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Profile

Dedicated technical professional having 15+ years of Informational Technology experience, committed to maintaining cutting edge technical skills and up-to-date industry knowledge. Extensive experience with multiple technologies - C/C++, Python, GTK/QT, Pro* C, UNIX/Linux - Shell scripting, PL/SQL, Oracle and Hadoop databases. Displayed and proved capability to learn any new technology and work on it in a matter of few days. Hands on experience in implementing advanced C++ Code, STL libraries such as Vector, List, map, stack, deque and Boost libraries in projects Strong exposure on Python programming in Django frame work, Python Mock Test, Python Automation Test, C++ Google Test, YUM/RPM/APTITUDE commands, GUI Squish Test using Python. Strong exposure to software development tools like Toad, Clearcase, eclipse, SVN Tortoise, putty etc. Very good experience in Front end UI development using C/GTK, C++ along with QT/MFC and Java Script/HTML/CSS. Experience in working with Sybase, PL/SQL and Oracle Databases.

Professional Experience

C++ Development Engineer, *Citibank*   08/2015 – 05/2017
                                                                        Mumbai, India

- onsite Electronic Warfare System:The project is for a premier defense laboratory owned by the Government of India, dedicated to research, design and development of electronic equipment and software for the defense forces of India.
- Our team has been entrusted the responsibility of designing and developing sophisticated software for the Indian Air force, aimed at assisting them in a tactical warfare system.
- Responsibilities: Involved in the requirements gathering phase of the project, client interactions and preparation of the SRS, IRS and SDD Developed Front End UI Screens using C++/MFC Coding for the Signal Analysis Module and Messenger Module Involved in trouble shooting the issues in production and bug fixing programs Extensive use of Multi-Threading, Socket Programming and GUI's for Report Generation Network Programming involving TCP/IP and UDP for broadcasting Training new resources and Communicating with client.
- Preparing status report and progress report of my team members Share and document the developed components.
- Used SVN for code repository Environment: Pro* C, C/C++, STL, Multi-Threading, Socket ProgrammingUnix/Linux, Shell Script.

C++ Development Engineer, *DLRL, DRDO*   07/2013 – 08/2015
                                                                        BEL, India

- This software is used in the field of avionics.
- This system serves as a force multiplier by enhancing situational awareness of the defense forces.
- This system will provide early warning by detecting; identifying and classifying the threats present in the surveillance area and act as a command and control centre to support Air Defense Operations.
- The system will also alert and direct fighters against threats and provide Air Situation Picture to commanders at the ground control segment of the Air Defense Direction Centers (ADDCs) through the Ground Exploitation Station (GES).
- Responsibilities: Development of High level and Detail Design for the software Participated in the architecture discussions with the vendor Involved in all aspects of Software development(SDLC) - Documentations, Coding, integration testing and peer reviews Performed System Architecture, Designed and Coded in C/C++.

- Developed code for Socket Programming and multi-threading programming Coded business logic, vClairedations, handlers and interface modules to connect with external and internal systems Designed, coded and tested both Client and Server TCP sockets for inter process communication.
- Implemented Data Structures, Algorithms, and Object-Oriented design Enhancement & Development of code using advanced C++ Language.
- Training new resources and Communicating with client.
- Used tools SVN for code repository Environment: Pro*C, C/C++, STL, Multi-Threading, Socket Programming and Message Queue.

Senior C++ Developer, *Center For Air Bourne System(CABS), DRDO*　　06/2017 – 07/2018
US
- Tank monitoring and Leak detection System (TLS):TLS (NextGen) is a Software Solution for Veeder Root, a leading global supplier of automatic tank gauging and fuel management systems, including the Red Jacket brand of submersible pumps and pressurized line leak detectors.
- This software product gets more control of the fuel management services including Alarm management, Delivery Scheduling, Inventory Planning, Inventory Reconciliation, leasing and Variance Analysis.
- Responsibilities: Took active part in UI Development and coding using C++/STL/QT/C# in .Net/Unix Handled Concurrency issues and incorporated Multithreading Concepts.
- Implemented Data Structures, Algorithms, Factory Pattern and Object-Oriented design Developed 'Watch-Dog' tool to monitor the threads and synchronization Used STL extensively in the project Writing python code for mock test/automation test Took active part in fine tuning, performance tuning for Socket programming Involved in trouble shooting the issues in production and bug fixing programs Involved in all aspects of Software development(SDLC) - Documentations, Coding, integration testing and peer reviews Coding, unit testing and integration testing of Touch Screen based GUI Screens, customized for an Embedded Device and for Desktop PC.
- Version control and issues tracking using SVN Tortoise Building very good relationship with the team, customer and management Arranging & conducting training, technology updates & knowledge sharing.
- Communicating customers and conducting weekly review through teleconference.
- Environment:C++/QT, Python,Unix/Linux, Shell/Perl Script, TCP/IP, Multi-threading/Socket Programming, C#/.net/SQL programming, Message Queue, SVN Tortoise, XML, SQL Database, Python Automation Test.

Senior C++/QT Developer, *Activtrak*　　08/2018 – 05/2023
Austin, US
- GSix Software Development (Smart Display on John Deere Tractors):John Deere GSix/GreenStar Display is a display for Agricultural Management Solutions.
- The GreenStar system provides planning and reporting tools to record data about field conditions, tillage practices, spraying applications, fertilizer rates, seed varieties and populations, weather conditions and more.
- It comes with different apps like Guidance and Machine Control.
- The benefits of guidance and machine control are immediate, clear and proven with Lower fuel costs, reduced fertilizer and chemical usage, more sustainable farming and higher productivity and profitability.
- I am working in Reprogramming team in John Deere Intelligent Solutions Group to upgrade the display from WR4 to WR5 using transition software and incremental updates.

- Our responsibilities also include to manage the software packages which comes in forms of rpms by installing/updating/upgrading/degrading from Application Manager from GUI display.
- Responsibilities: GSix Software Development (Smart Display on John Deere Tractors) Developed multi-threaded, and multi-process GSix software, both User Interface (UI) screens, and business logic using C++/QT Used Model View Controller Architecture Developed Transition software using python, shell scripts and YUM/RPM to upgrade GSix Display from WR4 to WR5.
- Implemented logics to install/update/upgrade software packages in Reprogramming Application Manager using QT/C++ Created application screens using QT Widgets, custom JD Widgetsdeveloped at John Deere Production support, bug/defect fixing, integration, field visit to solve customer issues Performed Test Driven Development (TDD) in an Agile developmentenvironment Implemented several functionClaireties in Reprogramming application Created new UI Screens for Application Manager Implemented backend business logic functionClairety for thetranslation of messages for Application Manager Implemented unit tests using Python, C++ in Google test framework, Squish test in python to automate the GUI testing Performed code reviews and Integration Testing with Several Teams Used Tortoise SVN extendedly to manage different repo branches, integrating many branches in one verifying successful build.
- Environment:C,C++/QT, STL/Boost Library, Python, putty, Ubuntu 14.04, Unix Shell Scripting, Python Mock, Google Test/Mock, GDB server, SVN Tortoise, YUM/RPM/APTITUDE, GUI Squish Test using Python, Jenkins, Agile methodology, Windows Port Authority of NY&NJ, Newark Intl Airport.

Skills

Primary Programming Languages
C/C++, Python, QT, Shell Scripting, PL/SQL

Database
SQL, PL/SQL, Sybase, Oracle 9i/10G, HBase/Hadoop

Network/Systems Software
Message Queue, Rabbit MQ, Socket Programming, TCP-IP/UDP/CAN Bus

Operating Systems
Ubuntu 14.04/UNIX/LINUX/Sun Solaris, Microsoft Windows, HP-UX

Other ProgrammingLanguages
Django (Python Web framework), Java, Java Scripts, XML/HTML/CSS

IDE&Project Methodologies
Qt-Creator,Pycharm, Net Beans, Visual Studio,Agile, Waterfall

Education

Bachelor's degree of Computer Science,   04/2009 – 03/2013
International Science and Technology University   Kyiv, Ukraine
- Completed a comprehensive four-year undergraduate program, majoring in Computer Science.
- Studied various aspects of computer science, including algorithms, data structures, software engineering, database systems, computer networks, and artificial intelligence