Andrew Herbst

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SKILLS

- C#, Managed C++, C++, MFC, Visual Studio, Java, Blackberry, Oracle 9iAS, J2EE, XML, Rational Rose, Rational ClearCase, Linux
- .NET-based technologies (including Windows Forms GUI development and .NET Remoting)
- Object oriented design, design patterns and development

EDUCATION

University of Massachusetts, Amherst MA B.S., Computer Science, 2003

EXPERIENCE

Senior Software Engineer, OpenAir, Boston MA 3/2007 - Present

- Worked as a member of the Thin Client/System Integration team to design and develop applications used by OpenAir customers and internal staff for various operating systems, including Windows, Blackberry, Windows Mobile and Linux.
- Led effort to modernize and port legacy MFC Windows tools and clients to .NET and Windows Forms yielding more maintainable and better performing code.
- Implemented dozens of new customer-requested features for existing system integration and thin client applications.
- Assisted in implementation and deployment of the OpenAir SOAP API as well as related documentation provided to OpenAir clients.
- Assisted support staff and client service consultants in diagnosing and resolving client issues and day-to-day bugfix support, reducing OpenAir's overall urgent issue response time to less than 24 hours.
- Provided timely, accurate, and professional documentation detailing technical solutions and changes applied to the OpenAir application and supporting software tools.
- Assisted client services consultants during deployment of the OpenAir application by providing system integration expertise and software support.

Software Engineer, Raytheon Company, Woburn MA 10/2005 - 3/2007

- Designed, implemented and tested pseudo real-time software components for the JADGE ballistic missile defense system. Completed design, code and unit test two weeks ahead of schedule. Lead a Six Sigma process improvement project that reduced installation time of customer supplied software from 40 man hours to 8.
- Completed preliminary and detailed design of the Integrated Target Generation component using Rational Rose
- Implemented heuristic search and auction correlation algorithms in C++
- Utilized Rational ClearCase for source control and configuration management
- Created a server management and locking tool using the C-Shell scripting language to better manage limited server resources.

- Conducted extensive system integration testing and simulation.
- Created post-run data analysis tools for use in MATLAB that aided in the visualization of system performance data.
- Moderated team code reviews

Software Engineer, Titan Corporation 2/2003 - 9/2005

- Responsible for the design and implementation of a multi-tiered, .NET-based command and control software compenent from initial specifications to final acceptance, including construction of a Windows Forms GUI and Managed C++ business logic. Utilized SQL Server 2000 as a database backend and .NET Remoting for interprocess communication. Implemented a test harness application for system integration and load-testing purposes.
- Used extensive .NET expertise to aid development team in their transition from Win32/MFC/C++ application development to .NET technologies.
- Implemented SQL Server replication via COM/.NET interop to create a message processing failover system.
- Created a custom installer framework, making extensive use of .NET reflection and Windows Installer technologies that reduced installation time from 1 hour to 15 minutes on each server.
- Assisted in development of a TIBCO-based media forensics system. Led the security hardening effort which led to a lower overall vulnerability profile of the system. Designed and implemented a JMS-based remote-command execution application critical to the performance and execution of the system.
- Participated in initial development of a J2EE Struts web application utilizing Oracle 9iAS and Oracle 9i RDBMS running on a Sun Solaris 8 platform.