

# Tammara King

Email: tammara.king@gmail.com

## Objective:

To assume a leadership role and contribute to the success of an organization's software engineering or IT department.

## Education:

B.S. Computer Science, Minnesota State University, Mankato

The Dale Carnegie Course

FCC Licensed Amateur Radio Technician

US Coast Guard Auxiliary Small Boat Coxswain

## Experience:

### **Microsoft Corp., Redmond Wa., 7/2006 to Pres (Vendor Contract)**

Software Development Engineer

- Performed analysis of Customer Licensing Profile (CLP) tool prior to its turnover to PBM group.
- Documented the CLP Calculation Engine for future architectural changes.
- Designed and developed fixes for defects in the multi-thread, multi instance Windows service, CLP Calculation Engine, using C#, Visual Studio 2005 and SQL Server 2005.
- Assisted in the architecture and design of new API for use by CLP Online.
- Led the re-architecture of CLP database schema.
- Assisted in the analysis and development of performance improvements of CLP database Stored Procedures.

### **Forest Capital Partners, Portland Or., 11/2005 to 7/2006 (Contract)**

Sr. Software Engineer

- Performed analysis of in-house developed budget planning software and implemented performance related enhancements using C#, ADO.Net and SQL Server.
- Designed and implemented a Windows Service to poll various FTP sites, download sawmill scale data, transform the ascii data and post it to SQL Server using C#, C++, ADO.Net and SQL Server.
- Designed and implemented the conversion of the company's Win32/VB6 harvest forecasting system to make database feed rather than reading ascii files. Created a C# class to push MS Access GIS data to in-memory Win32 C structures via .Net unmanaged structures and creating a COM/.Net interface callable by the VB6 UI using C#, C++, C, ADO.Net, .Net Tools(regasm, gacutil) and MS Access.

### **Coldwater Creek, Sandpoint Id., 6/2005 to 11/2005 (Contract)**

Sr. Software Engineer

- Designed and implemented new features and maintenance code for the corporate E-commerce site (Web Forms, Custom Controls and Web Services) using C#, Javascript, SOAP, XML, HTML, ADO.Net and SQL Server (Stored Procedures, Triggers, Table Design).
- Led the effort to locate and remove security shortcomings related to the use of dynamic SQL and querystrings.

### **Maximus Inc. Spokane Wa., 11/2004 to 6/2005 (Open Ended Contract)**

Sr. Software Engineer

- Designed and implemented new web based facilities management software (Web Forms, Custom Controls and Web Services). to replace existing Windows application using C#, Javascript, SOAP, XML, HTML, ADO.Net, SQL Server and Oracle.
- Assisted in the design, implementation and test of database functionality required for web application.
- Assisted in the design, implementation and test of an XSLT/XHTML presentation methodology.

**Avista Advantage, Spokane Wa., 8/2004 to 10/2004 (Short Term Contract)**

Sr. Software Engineer

- Designed and implemented a new password encryption system for AviTrack and FacilityIQ products using the Blowfish single cipher hash algorithm using C#, XML, ADO.Net, ASP.Net, HTML, Visio UML, SQL Server 2000 and Oracle.
- Assisted with regression testing of indirectly affected components.
- Planned and implemented a conversion of MTS objects to COM+.

**Itron Inc., Spokane Valley Wa., 8/2003 to 8/2004**

Sr. Software Engineer

- Enhanced and maintained the LD-Pro engineering software product using C#, VB, COM and ADO/ADO.Net.
- Assist in the creation of custom interfaces to share data to and from customers Geographic Information Systems (GIS), Work Management Systems (WMS) and Facilities Management Systems (FMS) using VB, Crystal Reports, XML, COM and ADO.
- Lead developer for the Northeast Utilities implementation of the generic XML interface between LD-Pro and the customers GIS and WMS.
- Work with customers and support engineers to resolve data and product problems.
- Wrote a feasibility report on creating an internet based version of LD-Pro using C# and ASP.Net.
- Supported the LD-Pro XML two way interfaces to handheld Windows CE/Pocket PC GIS devices using eMbedded VB and C++.
- Worked with the Technical Documentation and Online Help group to provide them with an initial draft for the LD-Pro and TL-Pro XML interfaces to GIS, WMS and FMS systems.

**North Country Computer, 11/94 to Present (Part Time)**

- Designing and developing a universal amateur radio programming application using C#, ADO.Net and MS Access.
- Developed control software for Yaesu and ICOM two-way radios using C#.
- Conceived, designed and developed the application, online help and documentation for the Emissary product, a plant automation and performance tracking application that works with the Durant Ambassador hardware using VB, COM, ADO, Crystal Reports and Access.
- Developed the hardware and software for a home automation product using MicroChip and Crystal Semiconductor components and Assembler, VB and C++ to develop the software.
- Designed and developed a Customer Service/Warranty/Document Processing system and a Manufacturing Defect Tracking system for a manufactured home company, Homark Inc, also implemented the online help and trained the users of the system.
- Designed and developed a Manufacturing Defect Tracking system for NorTech Inc.
- Developed a Document Processing/Scanning/OCR system for Hydra-Mac Inc. using VB, C++, COM, ADO, WordScan Plus API and Access.
- Taught custom training courses on MS Access and MS Excel for Northwest Technical College.

**United Services Group/Great River Energy (GRE), 10/2002 to 8/2003**

Programming Specialist

- Technical lead for the software development group.
- Integrated control and status information from SCADA switches with the GIS using VB, C++ and Zetron MOBUS components.
- Maintained the ArcIMS internet based GIS system and FTP site for GRE.
- Developed the database and associated user interface for construction staking sheet product using SQL Server 2000, Stored Procedures, VB, ADO, Crystal Reports and COM.
- Designed and developed Windows CE applications for mobile data entry/capture using eMbedded VB, C++ and XML.
- Assisted in maintenance, test and enhancement of facilities management software.

- Provided support to customers for mapping, engineering, internet, document processing and facilities management applications using VB, C#, ASP, ADO, ASP.Net Access and SQL Server 2000.
- Converted various utility programs from VB to C#.

#### **NCS Pearson, 8/00 to 7/2002**

Sr. Software Engineer

- Created custom solutions for Internet and Windows applications for online Testing and Survey management, Imaging, Optical Character Recognition (OCR)/Optical Mark Recognition (OMR) and Data Storage and Retrieval.
- Acted as the technical lead for implementation and test of custom Internet and Windows solutions.
- Researched and selected the appropriate tools and technologies to be used in the creation of custom solutions.
- Designed and implemented a framework for a multiple input (internet forms, windows forms, scanner/text file, database import) document storage and retrieval system using VB, C++, SQL Server, Stored Procedures, ScanTools API, FaxWorks API, ADO, ASP, COM and JavaScript.
- Assisted the director of Quality Assurance in the creation, implementation and documentation of formal software test procedures using Rational and SQA test tools.
- Assisted in the creation, supervision and execution of quality assurance plans.
- Assisted in the implementation of a web based OCR/OMR and reporting system for New York Human Services.
- Assisted in the design, implementation, test and maintenance of SQL Server databases for custom solutions.
- Designed implemented and tested an NT/2000 service to automate importing of scanned images and text into customers archival databases.
- Assisted in design and implementation of standard components to be used in the creation of custom solutions.
- Implemented and maintained mirrored systems used to diagnose problems and design enhancements to existing customers applications. Assist in the design, implementation and maintenance of test NT/2000 network.

#### **Hunt Technologies Inc, 5/97 to 7/00**

System Architect/Sr. Software Engineer

- Defined processes for software development in Engineering and IT departments.
- Researched and selected the appropriate tools and technologies to be used for hardware and software development projects.
- Designed the software and selected the hardware for a single board PC to replace proprietary hardware for AMR receiver.
- Assisted in the testing of AMR End Point Device Analog Devices DSP firmware.
- Designed the Event Database for tracking Customer Service calls by source and problem.
- Designed and developed feature enhancements and fixes for MS-DOS operating software for our Automatic Meter Reading (AMR) System using Quick Basic and Borland C++.
- Designed and developed the database and all database support functions for the first release of Windows AMR operating software as well as all the device programming interfaces using VB, C++, SQL Server, ADO, COM, MTS, Active Reports and Crystal Reports.
- Designed and developed Windows enhancement to support the field AMR device programmer, also assisted in the testing of the firmware.
- Worked closely with Tech Support to determine content and priority of fixes for all releases of Windows and DOS operating software.
- Assisted IT department in providing data analysis for manufacturing/part defect problems.
- Assisted documentation department with content for new publications as well as review of finished documents.

- Assisted documentation in the creation of online help system using RoboHelp.
- Continuously worked with tech support and our customers to improve our existing software products and trying to find new ways to use our data for the good of our customers.

**DigiKey Corporation, 10/90 to 5/95**

Software Engineer

- Developed enhancements to in-house developed online order entry system using 3280 Assembler.
- Assisted in the testing, documentation and training for new features.
- Assisted in the conversion of the Order Entry and Order Fulfillment System from Concurrent 3280 Assembler to DEC VMS environment using C and RDB.
- Assisted in the redesign of the file system, from flat file to Oracle RDB.
- Assisted in the development of the automated conveyor system using Allen Bradley PLC-5 and Ladder Logistics Ladder Logic to improve performance of order picking/tracking.
- Developed a Data Warehouse for analyzing the effectiveness of mailing lists from several different list brokers.

**Sperry Univac/Unisys, 11/84 to 10/90**

Sr. Software Engineer

- Assisted in the creation and execution of test plans for new operating system features.
- Designed and developed various features of the OS1100 Operating System using 1100 Meta-Assembler and PL/1.
- Assisted in the maintenance of our group's portion of OS1100.
- Supervised the maintenance of two host 2200/200 Loosely Coupled Systems.
- Supervised the Operations staff.
- Assisted Systems Publications with review of product documentation.