**Andrew Diseker**

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**Objective:**

Provide operations support programming, configuration management and documentation, specializing in software analysis, network diagnostics and troubleshooting of existing systems.

**Skills:**

**Languages**: Java, C/C++, JavaScript, SQL, Unix Shell (*Korn*, *bash*, *C shell*), Perl, PHP

**Operating Systems**: UNIX (*Solaris*, *HP/UX*, *AIX*), Linux, Windows XP and Windows 7

**Hardware**: PC (*Linux* and *Windows*), Sun SPARCstation

**Other:** Software analysis (including debuggers), Internet applications (*telnet*, *traceroute*, *ping* etc.), software development tools (*Maven*, *Artifactory, Ant*), software build automation (*Hudson*, *CruiseControl*), configuration management software (*Subversion, CVS*, *SCCS*, *PVCS*, *RCS*), database development (*Sybase, Oracle*, *MySQL*).

**Recent Experience:**

**August 2008 – Present: Sapient Corporation (Associate L2)**

Troubleshooting and maintaining web applications for Department of Homeland Security. Tasks include analyzing production software issues, writing database scripts to analyze data integrity issues, managing automated building and testing of new software versions, and designing and writing *Java* classes and web pages to implement proposed fixes for problems found. Use of networking experience and tools to help diagnose communication issues with servers. Use of a variety of standard packages including *Hibernate, Spring* and *Struts* classes, as well as *Oracle* interface and specialized hardware interface classes. Development tools include *Maven, Ant, CruiseControl* and *Hudson* for automated build and test. Utilize performance testing software *Loadrunner* and unit testing *JUnit* classes. Provide application, system and network configuration support, as well as troubleshooting of firewall and load balancer configurations. Track trouble reports and system changes using *Remedy*, *Bugzilla* and *SVN*. As a personal project, creating and maintaining a pair of websites using *WordPress* and *PHP*.

**November 2007 – March 2008: Freddie Mac, Inc. (Contingency Worker)**

Provided software and data deployment support for Freddie Mac’s in-house software applications releases. Tasks involved file extraction, transfer, and validation, using *Perl* and *Korn shell* scripts which interfaced with *Rational ClearCase* and *ClearQuest* API’s.

**March 2007 – August 2007: CSC, Inc. (Contract Programmer)**

Provided software development support for CSC’s CADE project, part of the IRS Business Systems Modernization effort. Analyzed current software, and determining Unit design and Unit testing requirements for the next phase of delivery of CADE system software. The target platform was *C++* on IBM mainframe systems, using DB2 database and CICS operating system software. Design was documented using Rational products, including *Rational Rose, Rational ClearCase,* and *Rational ClearQuest*.

**2002 – 2006: Appix Inc. (Contract Programmer)**

Provided software development support for Appix’s Financial Framework on *Sun Solaris*, supporting trading and portfolio management functions, including most common business lines, transaction types and financial instruments. Applied in-depth and varied experience in *C, C++, Unix shell scripts, Sybase* and *Motif* on *Solaris* to adapt the Framework for customer- and site-specific requirements. Ported the Framework from *Solaris* to *Linux* for Citadel customer. Instituted an initial software configuration management policy using SCCS, prior to adoption of the corporate standard configuration system using *Subversion*. Analyzed configuration management packages and provided feedback to the effort to define the CM policies.

**Other Experience:**

Founded and ran a web hosting and Internet presence provider, specializing in *Linux* servers. Maintained network hardware (PCs running *Linux*) and applications (*Apache*, *sendmail*, *MySQL,* etc*.*), provided customer relations and customer support. Coded support utilities in *C, Perl, and shell*. Designed the server architecture including multiple web and database servers, and modified the architecture to utilize new hardware.

Provided software maintenance support to enhance a network provisioning system utilized by several telecom customers, including the Mexican Telephone System. Ported network analysis and network hardware provisioning systems to a new version of *HP/UX* operating system in *C, C++, Java, Perl,* and *Korn shell*. Rewrote critical FORTRAN subsystems in C. Utilized *PVCS* configuration management tools, integrated with *Korn Shell* scripts and *Nmake* makefiles.

Re-engineered the graphical user interface for a photograph retrieval system client, originally implemented in Smalltalk, to a native Macintosh application, using C/C++. Converted TCP/IP-based network communication libraries for use on Macintosh. Converted the original Smalltalk client as a test-bed for testing changes to the protocol used for client-server communications. Customized Smalltalk client for use in two marketing demonstrations. Wrote Perl and Unix Shell scripts to pre-process images for input into the system.

Ported graphical interfaces for the client portion of a client-server system for search and retrieval of electronic documents. Debugged the port of TCP/IP-based communications libraries. Redesigned and implemented additional functionality to interfaces based on redesign of the server. Coded utilities used in the document entry part of the system. Wrote Perl scripts used in system maintenance. Evaluated OCR packages used in the document entry system.

Designed and implemented graphical user interfaces (GUIs), mathematical and data storage libraries for an Indications and Warning situation assessment prototype, built and delivered on an Apple Macintosh II. The system was designed to use Bayesian probability networks to evaluate the current and future status of certain key installations. Applied object-oriented design techniques to enhance code re-use and simplification using C++. Participated in two successful live exercises of the prototype in the field. Technical lead in later stages of effort. Evaluated object-oriented database package, ObjectStore, for eventual use in prototype. Created GUI support classes using C++ and X Window for a target planning system.

Designed and implemented GUIs, using C and X Window, for a general-purpose LAN integration and test support system, built and delivered on an HP 9000 UNIX-based computer. Created a library of graphical support routines for the system to extend basic X Window interface. Acted as technical lead in the software design, and assisted in hardware support of the system.

**Education:**

2005-2009 non-degree Japanese coursework George Mason University

BS Computer Science, Eastern Kentucky University

AS Computer Electronics, Eastern Kentucky University

AS Broadcast Engineering, Eastern Kentucky University