**Karl N. Redman**

**Phone: 217-552-5449 kredman@sleepingstill.com www.sleepingstill.com**

***Experienced Unix C/C++ Software Engineer***

**Summary:**

Accomplished Unix C/C++ Software Engineer with extensive experience in the full life cycle of software development. Primary skills include Interprocess Communications (IPC) including Multithreading, Client/Server (Sockets), Standard Template Library (C++ STL), and Real-Time Data Delivery application Engineering and Development.

**TECHNICAL EXPERIENCE**

**Languages:**

C, C++, SQL, Perl, PHP, AWK, Python, Java, sed, shell scripting, HTML, WAP, XML, VXML, UML, Tcl/Tk, Pick Basic, Basic, Quick Basic.

**Interfaces:**

Standard Template Library (STL), POSIX, TCP/IP & UDP (Sockets), Interprocess Communications (IPC), SQL, RPM, PKG, GTK, MFC, WIN32, Expect, db, X Windows, Palm/PDA, XSLT, CSS.

**Systems:**

Solaris (SPARC & Intel), Linux, AIX, HPUX, ATT UNIX, SCO, QNX, BeOS, DOS 3.2 - 6.0, Windows 3.1 - XP.

**Administration:**

Network installation and design, NFS, Backup and recovery, printer sharing, user security, X Server, Samba File Server, Solaris Install Server, CVS, ClearCase, SVN, Trac Developer Wiki), Apache Web Server, Nagios (System monitoring), & various server installations.

**Hardware:**

SCSI (RAID), IDE, serial interfaces (multiport), dumb terminals, X Terminals, printer installation and maintenance, network switches and routers (Cisco PIX).

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**WORK EXPERIENCE**

**DoubleClick Inc. / Google, Inc.** (contract) March 2008 – May 2008

Display advertising and keyword search enhancement / reporting company*.*

* Perl and SQL development and code maintenance for the company's Search products. Started performing bug fixes within the first 2 weeks of employment.
* Trained in both Affiliate and Search product architectures.
* Basic Google engineering employee training -technologies and culture.

**Market Systems Inc. / Thomson Financial, Inc.** June 2005 – July 2007

*SEC Automated Exception Compliance Reporting.*

* C++ code maintenance of Exception Reporting applications.
* R&D real-time exception reporting applications – front-end & back end (Python [QT Libs, PDF Libs, WxLibs], C++, Java, XSLT, JavaScript [Dojo, GWT], PHP). These experimental applications were created in order to explore new technologies.
* Technical Administration: Server, network, and switch, hardware maintenance.
* Server Administration: Apache, Cisco PIX firewall, VPN, Nagios, SVN, Trac.

**Fathom Inc. / TransUnion, Inc.** (contract) January 2005 – June 2005

*Credit Score Model Reengineering.*

* C++ code conversion of financial scoring models originally written in C.
* Code conversion entailed pattern recognition and the development of some C code pattern searching utilities written in Perl.
* Won the first Fathom, Inc. “Be The Model” award for providing several developmental process improvements including data integration, informational presentation, project management, and quality control.
* Work was performed and tested on Windows 2000 and then re-tested on an IBM S390 Mainframe.

**Midphase Services, Inc.** July 2004 – October 2004

*Startup Web Hosting Services Provider.*

* Engineered Requirements and Specifications for the development of a World Wide Web based billing, help desk, and reporting system. The system was to utilize Semantic Web technology (RDF OWL) and development efforts were well underway, using C++ and Python, when the project was canceled.
* Maintained all Source Code Control (CVS), Project Management, Operation System and support applications installation, and development environments.

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**WORK EXPERIENCE**

**(continued)**

**Freelance Consultant** (contract) April 2002 – July 2004

*A progressive personal consulting business.*

* Performed C ++, Client/Server, and IPC maintenance for the current code base of a credit card processing system for a large transactions company.
* Developed and engineered a Content Management System for a web site hosting company using PHP.
* Engineered an object-orientated automatic trading system software design specification. The specification was written UML compliant.
* Maintained web site back-end and security for several clients (using Perl, PHP, C, C++, Sockets and SQL).
* Developed an SQL and GTK based Caller ID Client / Server GUI application and database system that tracks incoming personal and business calls.
* System and network installation / administration coordinator.

**Verascape, Inc.** February 2001 – October 2001

*Innovator of a product which integrates telecommunications technology with voice recognition software.*

* Coordinated Operating Procedures and Development Coding Standards utilized by co-developers.
* Established and wrote installation procedures, specifications, and integration criteria for the end product.
* Performed C/C++ developer support and mentoring with co-developers.
* Spearheaded Application Build and Product Integration systems development.
* Co-engineered the realization of object-orientated C++, Sockets, IPC and SQL software applications.

**Lucent Technologies** (contract) July 2000 – December 2000

*A nationally recognized telecommunications company.*

* Member of the APLG -a wireless technology (TDMA / CDMA / AMPS / 3rd generation) Quality and Assurance branch of the company.
* Maintained current source code while engineering various feature implementations for Bell Laboratories' cellular telecommunications Q&A testing applications using C++.
* Developed and documented an Intranet Laboratory Testing Support Web site used by other developers for software development and testing purposes using Perl.

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**WORK EXPERIENCE**

(**continued**)

**Jacobs Health Care, Inc.** (contract) June 2000 – July 2000

*A well respected prescriptions healthcare provider.*

* Performed code maintenance for existing Pick Basic applications.
* Acted as System and Network Administrator while the company sought a permanent candidate for the position.
* Assisted management in developing job description specifications for the IT department.
* Instructed IT Dept. personnel in the maintenance and repair of various serial printers and dumb terminals as well as AIX and network administration.

**The Helios Group, Inc.** January 2000 – May 2000

*A financial trading firm that utilizes cutting-edge technology to gain an advantage in European and U.S. options markets.*

* Held Lead Design Engineer and Programmer position for the development of a real-time object orientated automated financial options trading application. The final product was written in C++ and used threads and other forms of interprocess communications.
* Ported several AIX modular C programs to Solaris object-oriented C++ applications.
* Software Developed included multi threading, Sockets, Semaphore & cross – platform programming.

**HyperFeed Technologies, Inc.** October 1997 – December 1999

*A real-time financial data delivery provider.*

* Functioned as Engineer, C++ Developer, and Project Manager of a real-time financial data client/server SDK/API for Solaris, AIX and Linux.
* Engineered and developed several database maintenance applications for in-house use using MFC, C++, Perl, and C.
* Programmed several cross-platform (UNIX and Windows) data quality testing applications using C and C++.

*For more in-depth information see* www.sleepingstill.com

*Contact information is available upon request.*