

Karl N. Redman

Phone: 217-552-5449

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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, HPUNIX, 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.

