

Karsten M. Self

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Availability & Geographical Preference

I am currently seeking permanent or consulting engagements in the San Francisco South Bay / Peninsula region and outlying areas: Santa Clara, San Mateo, San Francisco, and Alameda counties. Other Western US locations on a travel + per diem basis

Objective

Permanent *or* consulting engagements applying technical skills with GNU/Linux-based solutions to deliver maximum organizational value.

Skills

Computer/Programming

- Programming
 - Scripting: sh, bash, ksh, csh, Perl, Python, R, sed, awk
 - Enterprise tools: Platform LSF, Cacti
 - Development tools: Mercurial/hg, SVN, CVS, RCS, GNU make.
 - Web: HTML, CSS.
 - SQL: Postgres, MySQL, Oracle, MS SQL Server, Informix, DB2.
 - C/C++: Build/debug, troubleshooting, minor coding.
- Platforms
 - GNU/Linux: Debian, Red Hat / RHEL, CentOS, Novell / SuSE / SLES, Ubuntu, others.
 - UNIX: OS X, Sun/Solaris, HPUX, SVR4, BSD. FreeBSD, OpenBSD, Cygwin.
 - Virtualization: VMWare Workstation, VMWare GSX Server, Xen, User-mode Linux, qemu, Parallels.
 - Legacy: VAX/VMS & AXP OpenVMS, MVS TSO/ISPF, Microsoft Windows NT, Windows 2000, Windows 2000 Server, Windows XP.
- RDBMS: SQL, application and database development with Oracle, Informix, DB/2, Sybase, SQL Server, Postgres, and MySQL.
- Networking: TCP/IP, SMTP, NNTP, DNS, BIND, DHCP, NAT, NFS, NIS, HTTP, SSH, apache, firewalls, Samba, X11.
- Hardware: SCSI, RAID, DAT, SATA, Cat5 cabling, hubs/switches.
- Document/Content: HTML, CSS, SGML, XML, DocBook, LaTeX, Wiki, TWiki.

Industry experience:

Agriculture, biotechnology, consumer credit, engineering, finance, healthcare, insurance, Internet, e-commerce, pharmaceutical, and software.

Healthcare: Extensive managed care, Medicare/HCFA, and standard/exceptions reporting.

Selected Accomplishments

Systems & Network Administration

- Monitoring, troubleshooting, and assessment on 10,000 node server farm, utilizing automount, NFS, LDAP, Cacti, OpsWare, and Platform LSF for leading EDA software provider.
- Systems and network administration for regional webhosting & design firm. Over 600 websites, 30 internal users, 17 servers.
- Administered heterogenous environments comprising Red Hat Linux, Debian GNU/Linux, HPUX, SunOS, Solaris, and other Unix.
- Administered, installed, and supported services including: exim, qmail, BIND, spamassassin, iptables, ipchains, apache, Mailman.
- Provided 2nd tier internal and external end-user support on Linux, Unix, Microsoft Windows 2000, Microsoft Windows 2000 Server, and Microsoft Windows XP.

Data Analysis, Software Development & Quality Assurance

- Developed test plans, test cases, coverage matrices, documentation, systems, and execution of QA/QC tasks. Opened, verified, monitored, and resolved QA/QC issues with tracking tools including Bugzilla, Remedy ARS, Trac, Jira, and others.
- Developed internal and external documentation and documentation systems. Authored numerous frequently referenced Linux and applications references.
- Responsible for community development, establishing and communicating licensing policies, liaising with sales and business development teams on free software issues.
- Internal tool development and recommendation, build/buy decisions for: database, software revision control, documentation systems, and other systems.
- Data analysis for pharmaceutical, investment services, consumer credit, and biotech devices clients. Projects included phase III/IV FDA submissions, 100 million record data validation, and biomonitoring development support, utilizing SAS and other tools under Unix and other platforms.

Employment

Cadence Design Systems, Inc., October 2006 - Present.

Systems Architect for leading EDA software provider, leading team in monitoring, troubleshooting, and remediating large-scale server farm running RHEL 3/4/5, SLES 9/10, Solaris 8/9, AIX, HPUX. Developed tools to monitor and evaluate system performance, identify and resolve issues, and increase overall farm reliability, availability, utilization, and efficiency.

PGP Corporation, March 2006 - September 2006.

Sr. QA Engineer for leading encryption solutions company, performing QA on server products software, including UI and functional tests involving SMTP, IMAP, POP, PKI, HTML, SSL, and other functional aspects, interfacing directly with developers. Additionally perform test case development and execution, bug reporting and validation, and documentation of tools and procedures.

XenSource, August 2005 - February 2006.

Sr. QA Engineer for the leading Open Source enterprise virtualization company, performing QA on multi-platform systems software, including building and running automated functionality, stability, and performance testing on a 40-node cluster.

Independent Consultant, San Francisco Bay Area. 9/1995 - present

Periodic consulting engagements with corporate, non-profit, educational and SOHO clients, including GNU/Linux administration and deployment, website development, SAS consulting, and on-site systems support.

Boys & Girls Clubs of Napa Valley, March 2004 - December 2004.

Technology director for youth & teen programs. Oversee both programmatic and technical aspects of running a safe, educational, and kid-friendly network for over 200 users. Legacy clients on a GNU/Linux back-end utilizing Apache, Samba, Squid, Dansguardian, and other technologies.

Quality Planning Corporation, January 2003 - July 2003.

Database design, process clarification, standardization, and capabilities enhancement of insurance policy data quality improvement system utilizing multiple third-party data sources resulting in insurer revenue recovery for San Francisco client.

Consulting Designer, Kuro5hin.org, <http://www.kuro5hin.org/>, January, 2000 - present.

Provide design input on the collaborative filtering engine of a popular "technology and culture from the trenches" discussion site, including moderation and user-ranking "mojo" systems.

Sr. Systems Engineer, Freerun Technologies, Inc., January, 2002 - November, 2002.

Provided systems administration, systems support, internal and external end-user support for regional webhosting & design firm. Over 600 websites, 30 internal users, 17 servers. Red Hat Linux, Debian GNU/Linux, qmail, bind, apache, perl, Java, HTML, bash, shell scripting.

Director of Evangelism, Zelerate, Inc. (formerly OpenSales, Inc.), San Mateo, CA, 11/1999 - 1/2001

Served several business and technical roles in a rapidly evolving e-commerce software Internet startup environment, encompassing technical, business, and legal tasks.

Statistical Programmer, Trilogy Consulting, San Mateo, CA, 8/1997 - 11/1999

Providing systems solutions to clients utilizing SAS, Unix, and PC tools, in pharmaceutical, investment services, unsecured consumer credit, and biomedical devices sectors. Clients: Roche Pharmaceutical, Visa International, Charles Schwab, Vital Insight.

Analytic Programmer, PM Squared, Inc., 3/1996 - 8/1997

Technical SAS lead for managed healthcare consulting firm.

Sr. Analyst, HealthCare COMPARE Corp., West Sacramento, CA. 12/1994 - 8/1995 (now Coventry Health Care, Inc.)

Developed reporting and analytic solutions for internal and external clients using SAS in a VAX/VMS, AXP, and MS Windows environment.

Healthcare Analyst, HealthCare COMPARE Corp., West Sacramento, CA. 4/1993 - 12/1994

Consultant, Calgene Fresh, Davis, California. 2/1993 - 4/1993 (now Monsanto).

Intern, Davis Energy Group, Davis, California. 6/1991 - 9/1992.

Intern, Sacramento Municipal Utility District, Sacramento, California. 6/1990 - 6/1991.

Publications & Presentations

- "CIDR House-Rules: Use of BGP router data to identify sources of Internet abuse", presented to the Messaging Anti-Abuse Working Group, 6th General Meeting, March 1, 2006.
- "Open Source Software Licenses" Intel Developer's Conference, Presented in Santa Clara, CA, September, 2000
- "Open Source Business Licenses -- Choosing the Right One for Your Project" O'Reilly Open Source Conference, Presented in Monterey, CA, July, 2000
http://www.oreillynet.com/pub/e_sess/786
- "T. Bollinger, R. Nelson, K. M. Self, and S. J. Turnbull, "Open- Source Methods: Peering Through the Clutter," , IEEE Software, Vol. July/August, no. 4, 1999, pp8-11.
- "Data Know Thyself: VV - a macro to tell you Evverything You Need to Know About Data Set Characteristics" Western Users of SAS Software, Proceedings of the Fourth Annual Regional Conference, p 14, (c) 1996. Presented in San Francisco, CA, September, 1996.
- "UNIX Large file Processing Secrets", SAS Institute, Inc., Proceedings of the Twenty-Second Annual SAS(r) Users Group International Conference, p1468 (c) 1997. Presented in San Diego, CA, March, 1997.

Education

BS University of California Davis, Agricultural and Managerial Economics.

Interests

- Sculler, backpacker, cyclist, and competitive swimmer.
- Classical, jazz, and blues.
- Conversational German.
- US Citizenship

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