ROBERT W. STARKEY

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CRITICAL SKILLS

GENERAL:

Over seven years experience with Network and Systems Administration dealing in large Internet connected sites with major emphasis on security, high availability, and performance. Possess solid programming skills.

OPERATING SYSTEMS:

Solaris, SunOS, Linux, FreeBSD, OpenBSD, IRIX, NeXTstep ; Windows (NT, 98, 95, 3.x) , DOS (3.x to 7.x) ; Novell.

HARDWARE:

Sun, SGI, Amiga, Intel, Mac ; RAID concepts ; Cisco routers and switches, 3com routers, switches, and hubs, BayNetworks hubs, routers, and switches, Ascend ISDN routers ; Kodex, Cray, and Kentrox SMDSU and CSDSUs ; Xyplex MAXserver Terminal Servers.

PROGRAMMING:

C/C++, HTML, Perl, sed/awk, tcl/tk, Expect, SQL, m4, Java, JavaScript, UNIX Shell (ksh, sh, csh), CVS.

NETWORKING:

TCP/IP (IPv4 and IPv6), IPX, NetBEUI, Netbios, BGP4, RIP(II), OSPF, CIDR, SNMP, DS3, T-1, SMDS, Frame Relay, ATM, FDDI, PPP, SLIP, ISDN, xDSL, VPN, SSL and Certificate management, Ethernet, FastEthernet, Wireless (Broadband spectrum), and most remote access media.

SOFTWARE:

Checkpoint Firewall-1, SOCKS, SSH, COPS, Satan, TCPWrappers, various password crackers, SSLeay, TIS Firewall Toolkit, TripWire, PGP, Kerberos; Sendmail, Qmail, Post.Office, Majordomo ; Apache/Apache-SSL, Netscape servers, AOLServer, Stronghold, Excite and MS Index Server search engines, Squid, MSIIS(3 and 4), Cybercash, wwwstat ; Solstice DiskSuite, Veritas Volume Manager, Legato Networker, Amanda, Seagate Backup Exec ; DNS/BIND (version 4.x and 8.x), gated, NCFTPd, WUFTPd, INN, RealMedia Servers, Mercentec Softcart, Cybergold Mint ; Samba, NFS, NIS/NIS+, automounter, AFS, Exceed ; SunNet Manager, BayNetwork Optivity Management Suite ; Adobe Photoshop, Macromedia Fireworks, Gimp.

Database Administration:

Oracle7, MySQL, MiniSQL, MSSQL, ODBC.

PROFESSIONAL EXPERIENCE

LAWRENCE BERKELEY NATIONAL LABORTORY - NATIONAL ENERGY RESEARCH SCIENTIFIC COMPUTING CENTER (NERSC)

Project Lead, Workstation Support, (CSE-III) 10/98 to Present

- Provided project lead responsibilites for a group of 2 other sysadmins.

- Maintained NERSC's mailhub servers.
- Provided backline end-user support for 150+ Sun, SGI, MAC, and PC workstations.
- Implemented Samba for cross platform disk and printer sharing between Unix, NT, and Win9x systems.
- Provided on-floor network and workstation installation and support for trade shows and conferences.
- Established standards for hardware and software.
- Developed and published documentation for those standards.
- Developed multipule scripts and programs to inventory, automate, and assist the adminstration of supported workstations.
- Developed and maintained network OS install and patch servers for Sun(Jumpstart) and SGI(Inst and Roboinst).

NEXTRON COMMUNCATIONS INC.
Supervisor of Server and Network Operations, 10/97 to 10/98

- Headed MIS management in capacity planning, resource allocation, purchasing, and deployment of all software, server and network hardware enterprise wide.
- Provided 24x7 on-call response for all server and network operations.
- Designed, implemented, and maintained high traffic Unix and NT world wide web servers using Apache, Netscape, and Microsft IIS server software.
- Designed, implemented, and maintained network level security using Checkpoint Firewall-1, router based filter policies, and private IP allocation.
- Provided backline desktop support to the helpdesk.
- Performed regular network and server security audits.
- Acted as postmaster as well as redesigned, implemented, and maintained all e-mail services. Wrote custom scripts to automate the handling of bounced email, mailing lists, and mail server administration.
- Implemented and maintained multiple CVS servers.
- Installed and maintained multiple instances of Excite and MS Index Server search engines for internal and external use.
- Performed presales SE support aiding the sales and marketing divisions.
- Developed and assisted in the development of multiple system administration tools. These utilities simplified the handling of DNS administration, site monitoring, user administration and accounting, security, mail administration, log cleanup, web site statistics, and bandwidth calculation. All of these utilities were written in Perl and C, utilizing Oracle, MySQL, and MSSQL as a backend solution for data access.
- Performed Oracle, MySQL, and MSSQL DBA tasks, including design and implementation of database servers. Responsible for creation, modification, tuning, and removal of databases. Wrote custom scripts to automate the creation of instances and tablespace management.
- Acted as primary contact for all SSL digital certificate registration and management.
- Implemented Samba for cross platform disk sharing between Unix, NT, and Win9x systems.

- Acted as primary site contact for all network issues. Maintained all Internet connectivity via multiple DS3 and T-1 connections to multiple upstream providers, using BGP4 and OSPF as primary routing protocols. Installed and maintained BayNetworks and Cisco routers, switches and hubs.
- Responsible for all IP number allocation, as well as DNS and domain name management.
- Designed and implemented backup solution using Amanda, Legato Network, and Seagate backup exec.
- Acted as primary system administrator for Dev-Com, a large web site hosting service tailored for web developers and high-end users, now owned by SageNetworks. This role included maintenance of all Solaris and NT based servers, back level Unix and NT tech support, contract programming services, presales consolations, tool smithing, implementation of new services, and maintaining customer satisfaction.
- Primary contact for buying and leasing all server and network assets.
- Established and maintained multiple vendor relationships.
- Designed and implemented dial-up modem pool for off-site administrators, sales, and marketing groups.

SILICON GRAPHICS INC.
Technical Support Engineer III, 4/97 to 10/97 (contract)

- Assisted customers in the resolution of their technical service requests.
- Replicated, documented, and reported hardware and software bugs including implementing devised "workarounds" for system hardware, software and documentation defects/enhancements.
- Interacted with other departments within the company to resolve customer issues. Hands-on experience using all Silicon Graphics products.
- Provided backline support assistance for fellow engineers.

ALBUQUERQUE TECHNICAL VOCATIONAL INSTITUTE
Network Support Specialist, 5/95 to 4/97

- Designed, implemented, and maintained 3,000+ node, 4 campus, metropolitan-wide data network utilizing such technologies as FDDI, FastEthernet, ATM, and Leased Lines.
- Headed IS management in capacity planning, resource allocation, purchasing, and deployment of all system and network hardware and software campus-wide.
- Installed and maintained dozens of Unix servers, workstations, and numerous Novell and Windows NT servers providing mail, news, compute, testing, development, and Internet services.
- Developed dynamic web based account creation utilities and user management tools in C, Perl and SQL to administer and maintain over 4,000+ accounts per semester.
- Provided hardware and software technical support for escalated help desk difficulties.
- Installed and maintained remote dialup access server for staff and faculty.
- Acted as technical reference for an Internet Services handbook.
- Designed, implemented, and maintained multiple high traffic Unix World Wide Web servers.
- Designed, implemented, and maintained network level security using Checkpoint Firewall-1, router based filter policies, and private IP allocation.

- Installed and maintained USENET news servers with 25,000+ news groups.
- Responsible for all IP number allocation, as well as DNS and domain name management.

TWR COMMUNICATIONS
System Administrator, 2/96 to Present

- Designed, implemented, and maintained ISP from ground up.
- Designed and implemented DNS, web, news, and mail servers.
- Primary contact for all DNS, Web Server, and network issues.
- Designed, implemented, and maintained a Novell 4.1 file server that provided database services for a 150+ line WorldGroup BBS.

LOS LUNAS REALTY
System Administrator, 3/92 to Present

- Designed, implemented, and maintained a WinNT/Win95/Win3.x inter-office network.
- Responsible for troubleshooting hardware and software problems.
- Provided end-user and administrative training of the network and multiple applications including day-to-day use of Win9x, MS Office, and RealBase (custom application).

EDUCATION

LOS LUNAS HIGH SCHOOL
1989-1992

UNIVERSITY OF NEW MEXICO
Computer Science, 1992-1994

ALBUQUERQUE TECHNICAL VOCATIONAL INSTITUTE
Computer Science, 1993-1994

References, Source Code, and Publications available on request.

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