BRETT E. WYNKOOP
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HARDWARE

Sun, HP, Pyramid, 80x86/Pentium Intel, Next, IBM RS6000, Apple

SOFTWARE

Operating Systems:	UNIX (AIX, BSD/OS, FreeBSD, HPUX, Next, SCO, Sun OS, Solaris, Unixware, OS X), OS-9, Coherent, Mach, MS-DOS, Linux
Firewall Systems:	TIS Gauntlet, IP-Filter, IPFW
Windowing Systems:	X11, Open-Look, Sunview, HP vue, CDE, MS-Windows, KWindows, motif
Web Servers:	Netscape, Apache, Plexus, thttpd
Languages:	C, AWK, BASIC, FORTRAN, 6809 Assembly, IBM 370 Assembly, BASIC09, HTML, PERL, SH, KSH, CSH

PROFESSIONAL EXPERIENCE

Wynn Data Ltd. − Systems Consultant - Technical Manager (3/94 - present)

- Clients include: HSBC, Citibank, Chase, BankOne, National Hemophilia Foundation, JSP internet services, Third Millennium Marketing, US Navy, CIBC, as well as numerous ISP and web hosting companies
- Determined client needs and assigned correct technical resource to the project.
- Provided annual personal reviews for technical staff & determined compensation.
- System migration to Solaris 10
- Solve problems involving ZFS, NFS, NIS, DNS, SMTP, POP, IMAP, HTTP, and SMB
- Y2K testing and remedation on AIX, Solaris, HPUX, SunOS, BSD/OS, Linux, & FreeBSD Systems
- Security analysis and hardening of AIX, Solaris, HPUX, SunOS, BSD/OS, Linux, & FreeBSD Systems.
- Documented standard operating procedures and prepared runbooks for operations staff
- Firewall design, implementation, testing, updating and monitoring
- Intrusion Detection System design and implementation and automation
- Mail server design and implementation for large & small networks
- Spam and malicious email filtering at the network edge and the mail server
- Multiplatform open standards VPN implementation
- System and network security analysis for SAN devices and heterogeneous MS-Windows/Unix networks
- Secure mainframe and VMS remote access solutions
- Web server design, implementation and configuration using Apache, Netscape, thttpd, plexus, minihttpd, and ddshttpd with and without SSL
- Post intrusion analysis and traceback
- Plan, and execute data center moves
- Build custom System Administration automation tools
- Build custom web applications based on FreeSoftware using Perl, C, and PHP
- Design and implement turn key networks for small and medium size businesses
- System performance analyses & optimizations for web servers, mail servers, compute servers and file servers

- Diaster recovery planning and implementation
- Implement Squid web proxy to accelerate web access and provide management controls on web access
- Worked with EMC SCSI and SAN products to implement fault tolerant systems
- Implement secure market data feeds
- Design, optimize and install database servers using Oracle, Sybase and MySQL

New School University − Adjunct Professor (9/98 - 2002)

Instruct students in the fundamentals of the Unix operating system in lecture and hands on lab sessions. Topics covered include file systems, shells, editors, printing, and utilities. The course points out the differences between various flavors of Unix including BSD/OS, Linux, AIX, HPUX, SCO, Solaris and SunOS. Hands on sessions are on Solaris 2.6 and BSD/OS 4.0 systems.

Taught introduction to programming using /bin/sh, perl and C. Classes include program design, use of programming tools (Make, CVS) and writing well commented code that peers can understand.

Taught network security and encryption. Designed the Unix, Perl and webmaster programs for the university.

Berkeley Software Design, Inc. − Member of The Technical Staff (9/95 - 6/98)

Provided technical support services to customers using BSD/OS versions 1.1 − 3.1. System and network debugging, kernel crash analysis.

Designed many aspects of the default user environment in BSD/OS 2.1, 3.0 and 3.1, 4.0. This included both shell and Xwindow system environments. Ported freely available code to BSD/OS for inclusion in the released product. Added features to maxim the web based system admin tool that is part of BSD/OS. Assisted in design and testing of mailfilter, a drop in network appliance that blocks unsolicited bulk e-mail.

Group leader for BSDI's consulting division. Projects included on site building of turnkey ISP operations, porting software, system capacity planning, migration from NT to BSD/OS and security analysis/hardening of customer sites.

Project leader for integration of IPX (Netware) services into BSD/OS.

BlackRock Financial Management − Vice President of Technologies (3/92 - 3/94)

Responsible for the entire technical infrastructure of BlackRock Financial Management. Manage department consisting of System and Database Administrators, Network Technicians, Voice Technicians, Computer Operations and User Support personnel, 10 direct reports. Responsible for personel evaluations, bonus recomendations, annual pay raise determinations. Responsible for directing improvements to the firm's technical infrastructure and management of a two million dollar annual department budget.

Planned and supervised the move of the firm's entire technical infrastructure when the firm moved to new larger quarters. This included complete planning of the computer room, the voice communications room, voice and data networks, the trading positions as well as the entire cable plant for the firm.

Instructed programmers in proper use of a distributed computing system, and how to best take advantage of both peer to peer and client/server computing models. Instructed programmers in creation of programs that took advantage of resources available to the firm via outside dial up data services.

Redesigned parts of the OAS calculation process to decrease time spent computing OAS figures by a factor of 8.

Redesigned the configuration of the Sybase database server to improve reliability, speed and security.

Designed and implemented a secure verifiable system of backups for all computer data.

Integrated a Novell network of 30 computers into the main corporate TCP/IP Unix network. This allowed users of the Novell Network access to additional resources, data and services that all other corporate users had access to.

Designed a disaster recovery plan.

Developed a secure means of printing reports at a remote location via dial up line.

Moved the computing environment from a network of 1 server for both production and development supporting 20 clients to a configuration of 10 Servers and 200 clients (Sun workstations, Xterminals, PCs and Macs) on different networks all linked via a common backbone.

Designed and supervised the construction of the firms new data center, and trading floor, as well as the technical infrastructure needed through out the entire office space. This project included design of both voice and data networks, power systems, backup systems. Specifying, and approving all equipment for the project. The trading floor supported 80 trading positions, all of which had redundant data communications and UPS support for Sun workstations and other critical equipment. All company servers and communications equipment were powered from a UPS system. The data center was monitored by a command and control computer to detect problems with the power, or environment and alert technical staff via both local alarm and pager.

Supervised the move of all equipment from the old location to the new location after construction was completed. New network/systems came on line over 1 weekend with no problems found.

Designed and implemented a high availability system to minimize traders suffering down time due to hardware or network failures. This system used off the shelf hardware and techniques developed in house at a significant savings over commercial products.

Lehman Brothers − Chief Systems Administrator/Operations Supervisor (5/91 - 3/92)

Responsible for network planning and trouble shooting. Responsible for administration of a of large network Sun Workstations and servers as well as a few Nextstations interconnected to other networks consisting of MS-DOS and Mac machines as well as IBM VM systems. Set up LU6.2 links between IBM mainframe and Sun servers. Duties include maintaining the electronic mail and network news systems for over 2000 users and advising application developers on how best design software for a networked Unix environment taking full advantage of Xwindows and distributed processing. Supervise staff of 5 operations personal to maintain day to day services to users.

Davidge Data Systems − New York, NY - Director of Operations/Principle (4/90 - 5/91)

Responsible for managing technical and field service departments to provide service and support for Unix based custom trading systems designed around Sun workstations and file servers. Determine equipment needed to support future software and networking products for the company's line of on-line transaction processing systems which are based on distributed processing using Sun file servers and Workstations as well as networked 80286/80386 MSDOS based PCs connected by ethernet or X.25 links.

Responsible for testing of new products and rewrites of code needed to bring products to release ready state. Reorganized existing product into a logical, easy to install and trouble shoot package that works in a generic version.

Responsible for managing in house development and production systems consisting of Sun file servers in a network of Sun3, Sun4, 386 Unix machines, and MS-DOS pcs. Take care of daily system administration as well as network and system planning.

Administer Sun3, and Sun4 systems and networks at remote client sites.

Developed a fault tolerant trading system using Sun Workstations, off the shelf hardware and some custom software.

Davis, Polk, and Wardwell − New York, NY - Technical Support Supervisor (3/87 - 3/90)

Supervised department consisting of computer operators, technicians, database specialist, and systems administrator, 10 direct reports. Responsible for annual personel reviews and salary recomendations.

Was responsible for computer operations, maintenance and networking of Unix systems from Sun and Pyramid, as well as 80386 systems using Xenix. The above Unix/Xenix systems served 1500 users at 5 sites in 3 different countries with transparent networking between sites.

Planned new installations and determined suitability of equipment for the firm's ongoing needs. Planned expansion of existing LAN and WAN systems as well as new LAN and WAN systems using TCP/IP over fiber, twisted pair, coax. Bridged lans over DDS, T1 and satellite facilities to form a large international wan of Unix systems.

Planed and supervised the construction of new Unix data center and networking systems for London office. This installation served 200 users and allowed them to network transparently with the Paris, New York, and Washington offices.

Planned and supervised construction of new voice and data communications center for Washington office.

Analyzed ether net difficulties using standard unix tools and a network probe lanalyzer.

Measured Power − New York, NY - Consultant (7/86 - 3/87)

Planned, designed and installed communications systems using radio and wireline technologies. Serviced UPS systems and power conditioning equipment. Clients included major banks and local colleges.

Pace University − New York, NY - Electronic Network Engineer (10/82 - 7/86)

Responsible for cut over of four switch dimension network in ETN. Responsible for planning, updating, and maintaining all voice and data communication equipment. Specified and ordered equipment as well as lines. Supervised small staff. Planned and maintained CCTV and security systems.

EDUCATION

United States Merchant Marine Academy - Kings Point, NY.
Degree earned: Bachelor of Science - Major: Nautical Science
AT&T Dimension School, Briton Lee IDM School, Micom M6600 System Administrator School, Micom M6600 System Maintenance, Micom X.25 training, Sybase DBA School

PUBLICATIONS

SysAdmin, May, 1994, ''The Netgroup Advantage,'' How to use netgroups to improve security and cut workload.

RELATED QUALIFICATIONS

Valid FCC General Radio Telephone License, Extra class Amateur Radio License 1972 − Present