

## Geoffrey A. White

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### Summary:

Veteran Unix Systems Engineer with extensive experience in Systems Programming, Systems/ Network Administration & Security, and Engineering Management. Broad competency gained from over two decades of front line engagement with major industry players, international banking establishments and Internet start-ups.

An innovative Team Leader with excellent communication and interpersonal skills honed from starting some of the early years ISPs of the 90's and providing international Professional Services support for multinational computer companies.

### Skills

#### **Languages (years):**

C/C++(30+), Assembly Language(30+), Perl[3], Python[1]

#### **Operating Systems (programming, administration, configuration):**

ESX, OpenBSD, Ubuntu, SuSE, RedHat Linux, FreeBSD, Solaris, Windows, OKL4

#### **Web Technology (configuration, administration):**

Apache 1.0/2.0, BIND 9, Sendmail 8, OpenSSL/SSH

#### **Server Engineering:**

Server construction, RAID configuration, Security Hardening, Software Upgrades, PXE boot, SELinux

#### **Network Technology:**

DNS, DHCP, OSPF, EIGRP, IMAP/POP, Cisco IOS, HTTP, tcpdump

#### **Hardware Systems:**

IA32, IA64, M68000, SPARC, ARM, PDP-11, PDP-10

#### **Industry Certifications:**

CCNA, VCP

#### **Brainbench Transcript ID:**

<http://www.brainbench.com/transcript.jsp?pid=3645811>

### Experience:

January 2007- Current **Vmware Inc.** San Francisco, California

*Level 3 Technical Support Engineer*

Tier three support specializing in Virtual Infrastructure Enterprise issues, network troubleshooting, program faults and SDK issues.. Working with "Big Iron" Partners to solve difficult cases involving partner products, customer infrastructure, and Vmware VI3 product behavior. I have VCP certification from

Vmware and CCNA certification from Cisco. Author of esxcmdr, a support shell written in Python for use in the V13 environment, with or without Virtual Center

January 2006 – December 2006 **Verizon Business** San Francisco, California  
*SOC Engineer*

Level III SOC Engineer for the former Totality e-commerce infrastructure, construction and management company. Daily duties included WebSphere, Dynamo and ATG operation and management, troubleshooting DNS, NTP and SMTP problems, restarting systems, coordinating hardware swap-out, various systems management tasks on Solaris, HP-UX, AIX and Windows 2000/3 Server, diagnosing network reachability issues.

2006 **DroidOS Project** Berkeley, California  
*Developer*

DroidOS is a special "streamlined" OpenBSD kernel with a small footprint, (< 1.5 MB), no swapping device and RamDISK. It is designed to be used in embedded systems like the soekris Net4801. I have deployed this kernel and the associated userland as a filtering bridge, a routing firewall, and a secure ftp gateway to a large web hosting server.

MailDroid is an Open Source project that I started to provide a SPAM fighting MFG (Mail Filtering Gateway). Built around DroidOS, sendmail, SpamAssassin, smpt-vilter, ClamAV, sasl2 and SquirrelMail. The "install CD" can be used with any PC. The software is in use as the MTA/MFG of a local ISP, a collaboration ASP and had been downloaded by over 300 users world-wide. I was responsible for all programming in C, PHP, Ruby and Perl. In addition to the programming, I configure new kernels, debug and burn CF file systems, and set up development networks for other engineers so that the boxes can be remotely booted.

1998 –2006 GW **Communications Inc.** San Francisco, California  
*Systems/Network Engineer(C)*

Over this 8 year period, I provided systems, network and server engineering to several "dot.com" companies in the San Francisco Bay Area. Some of these companies co-located servers at Virtual Sites, the ISP that I operated, others co-located at data centers in the immediate area. Duties included Perl programming, server construction, machine upgrades and migrations, firewall construction, internetwork design, security monitoring and system hardening. The following roles marked with **(C)** were performed through GW Communications Inc.

May 2005 –January 2006 **linkify.com** Berkeley, California  
*Systems/Network Engineer(C)*

Performed all system and network administration tasks for this major collaborative work site. Duties included closing security holes, handling DoS attacks, building new servers, solving hardware/software problems. Sendmail configuration, MySQL configuration, Firewall construction (OpenBSD) and management., Linux kernel configuration and tuning.

March 2004 – January 2006 **Musclegods.com** Emeryville, California  
*Server Engineer(C)*

Lead Systems engineer responsible for two large scale RedHat Enterprise Servers and one Windows 2003 server. Duties included support of content developers who are uploading content, MTA configuration and maintenance, applying software updates, DNS management, security concerns, writing code to track password compromises and cracking attempts, in PERL and Ruby. Construction, configuration and initialization of Linux servers, Construction and installation of NIDS and firewall systems.

September 2003 – January 2006 **3djoe.com** Richmond, California  
*Server Engineer(C)*

Migrated this Miva based storefront and Flash Video Arcade portal from an Pentium III, Redhat Linux 7.2 based system to a Dual 2.4GHz Xenon,RAID1, Redhat 9 based system. Migrated their web structure from Apache 1 to Apache 2 technology. Optimized MySQL operation, and implemented general performance enhancements, security enhancements and periodic maintenance. PHP programming, Perl programming, remote backup installation, troubleshooting Miva problems.

September 1998 – December 2006 **Lovings.com** San Francisco, California  
*Server Engineer(C)*

Functioned as Lovings principal server engineer since 1998. I have migrated them from their beginnings on a shared virtual host, to a Cobalt Raq, from there to a VA Linux, RAID unit and recently to a dual Xenon solution running Red Hat ES4. The site is a high volume Adult Entertainment Portal with over 1 million hits per day. My duties included general system maintenance, software upgrades, security issues, preventative maintenance, and any co-location or network operations issues that might arise. MySQL administration, Apache configuration and optimization, firewall configuration. Kernel configuration, sendmail configuration, third party software installation. Provided "Priority 1" round the clock escalation support to insure 99.9% uptime.

2000 **Greenpoint Mortgage.**

Larkspur, California

*Server Engineer(C)*

I spent about 1 month debugging and upgrading the mail gateway of the Enterprise network. Greenpoint had an existing e-mail system that was worked on by several individuals, none of which were still with the company, leaving no documentation behind. I first had to come up with an accurate model of how the current system functioned and then replace it with a more modern system based upon more up-to-date technology, based around Sun processors and the Solaris Operating System.

2000 **PlanetWeb Inc.**

San Carlos, California

*Server Engineer(C)*

I spent approximately two months going over the Enterprise network, documenting their Cisco router and firewall configuration files, streamlining them and reconfiguring them to operate better and more securely. I also rebuilt a number of Linux machines for them, closing security holes.

1999 **Quios Inc.**

San Francisco, California

*Server Engineer(C)*

This was a Start-up doing an SMS portal focusing mostly on the European market. I did server programming in Perl as well as performance tuning, and system administration. I helped to hire additional systems programming and operations personnel

1998 - 2005 **Exemplary Inc.**

Cupertino, California

*Server Engineer(C)*

I designed and implemented the first Exemplary enterprise network in 1999. The original network allowed the 7 member office to connect to the Internet using frame relay via an Ascend pipeline 220 access router with built in firewall firmware. The employees could connect to the office LAN from their homes via ISDN, through an Ascend Max ISDN remote access router. The office LAN was managed through a Cisco Catalyst 2900 switch. When Exemplary expanded and moved their office location, we designed and implemented an upgraded network that could accommodate over 150 employees. The frame relay connectivity was replaced by a clear channel T1, replacing the Pipeline 220 with a Cisco 2621 router and a Cisco PIX firewall. Intel VPN was used so that employees could subscribe to available DSL services and tunnel through to the office LAN. The 2621 was also configured with EIGRP to provide fail-over of the T1 with an ISDN BRI circuit. Virtual Sites provides the network connectivity and GW Communications provides the Network Maintenance for the Exemplary Network.

1998 - 2004

**Sun Microsystems**

Asia/Pacific

*Professional Services Consultant(C)*

I have traveled to the Philippines, Thailand, Singapore and Indonesia as an Internet Engineering and Security Professional for Sun Microsystems Professional Services division. Over this 6 year period, I've made 8 trips, each lasting 4 weeks on the average. During these trips, I have worn many hats. Due to my depth of knowledge, experience and reliability, I often found myself in presentation situations, delivering results to the client. At other times, my work was much more "nuts and bolts", from diagnosing noisy E1 circuits, to performing Penetration Tests for Thai banking establishments to performing engineering management for a team of Sun consultants



Prototyped a Unix network daemon, **xsbd** that allowed for persistent connections between a large pre-existing PROLOG application and a newly crafted web front end running on Apache. This was under contract to the US Air Force. Code was in C, C++ and PROLOG.

1993 - 1995 **InterNex Information Services** Menlo Park, California

*Director of Network Operations*

Co-Founder and first Director of Network Operations of this pioneering Internet Start-up. Debugged bleeding edge Ascend Communications PRI/BRI devices. Personally provisioned and connected over 300 customers to the early commercial Internet. I managed an extensive Frame Relay network, junior System Administrators and the customer support staff.

1992 -1993 **Carlyle Systems** San Mateo, California

*Contractor(C)*

Designed and implemented a complete Build environment based around SCCS and Make. This enabled developers to “check out/check in” their code, have nightly builds, sandboxes, and track changes made for release management.

1992 **Isys Controls** Alameda, California

*Embedded Systems Programmer*

I programmed a stand-alone Image Processor built by COGNEX (which eventually acquired the company) to process data captured by Isys' line cameras. Once the image was processed and compared against a golden template, the resultant was transferred via IPC to a VxWorks system for upload. Code in C under Unix and VxWorks.

1991 **Institute for Global Communications** Menlo Park, California

*Member of Technical Staff*

Prototyped a search engine for content originating from the InterPress news service. Code in C under SUNOS4

1987 - 1991 **Sun Microsystems** Mountain View, California

*Member of Technical Staff IV*

Successfully ported the **pixrect, sunview and suntools** libraries and the SunView window system from the standard M6800 platform to the Intel 386. Created a tool to optimize working set sizes of running processes in a SUNOS 4.x environment. This enabled small memory footprint systems to realize better performance. Code in C/C++ and SPARC, x86 and M68000 assembly language.

1986 - 1987 **INTERACTIVE** Boston, Massachusetts

*Member of Technical Staff*

Ported INTERACTIVE Unix utilities to the Apollo DOMAIN Operating System. Code in C under Unix and DOMAIN.

1986 **Apollo Computer** Chelmsford, Massachusetts

*Contractor(C)*

Feature enhancement to workstation disk controller firmware. Code in C and 68000 assembler.

