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Side Projects:

2004 - present
Primary Global Research
Mountain View, California
Market Analysis for hedge funds and other investment firms. Detailed analysis of many technology companies' products (Sun, RedHat, Novell, others). Said information is used for investment purposes.

2004 - present
Engate.com
California
Automated testing procedures. Systems administration, troubleshooting, and installation on a pre-market anti-spam appliance. Seventeen outstanding patents.

2004 - present
The Wikimedia Foundation
I volunteer my time to author, correct, update, and research articles for the internet-based community encyclopedia, Wikipedia, and Wiktionary.

2002 - present
POSIX Compliant Networks
Arlington, Virginia
I became my own business in 2002, and perform some light consulting in mainly systems administration and perl programming.

Summary and Objectives:

I'm a second-generation Unix Systems Administrator and Systems Programmer. I've been working in dot-com, biotech, and defense for about a decade now, alternating between the two positions -- while sometimes straddling both. My experience with both programming and systems administration is extensive, from both small businesses to very large businesses and defense. My knowledge of Information Security / Assurance / Forensics is also acute. I'm mid-career, and looking to embark on new challenges. I like Solaris, and I am rather good with with Linux, too.

Stuff I've Done

Prior to my employment with AOL/TW, I have worked as a consultant, without exception. I worked as a full-time employee for AOLTW until the 2004 - 2005 Layoffs.

2003-2005
America Online/Time Warner
Systems Programmer
At America Online, I was responsible for designing, deploying, and administrating very large scale (tens of millions to billions of transactions a day) databases. Additionally, I designed APIs for proprietary data storage/warehousing and metric monitoring systems in Perl and PL/SQL. The intended audience was development staff.

I was required to be on-call 24/7 for diagnosis of impending or outright system failures.

My development environment was a very large (10e5+ nodes) heterogeneous (OSF1 / HP-UX / Solaris / RHEL) network. My group was responsible for maintaining configuration, user permissions and accounts, systems administrations, and fix-break issues. Additionally, we were a tools group, providing general software development in Perl and Shell (csh/ksh/bash), SQL, PL/SQL, C, and many other languages. We of course provided documentation and training for same.

2003 - 2003

BAE Systems North America

Systems Administrator

My responsibilities at BAE included creating security policies and mapping out paths for the hardware and software environments on a long-term software project for the Defense Logistics Agency.

I was also responsible for maintenance and troubleshooting on a legacy application (ca 1990), which is written in 7 different languages (Perl, csh, sh, C/C++, Scheme, Java, and TCL). It is presently being phased out, but requires administrative and end-user support.

Security was the primary focus, and we deployed our application to the DOD SIPRNET. Strong familiarity with DOD/DISA Unix STIG.

Required to author white papers for management staff, recommending hardware and software purchases, and also direct the group from an infrastructure perspective.

I was also tasked with creating tools in perl to help diagnose problems with the system and its software, as well as install software related to the development process.

I was the resident expert on the JOPES (Joint Operation Planning and Execution System) and GCCS (Global Command and Control System) systems and interfaces.

We deployed to Sun Solaris on UltraSPARC and Red Hat Linux on Dell x86.

2001 - 2003

The American Chemical Society

Systems Administrator / Systems Programmer

Employed as a UNIX developer and administrator. Tasked with the administration, design, and implementation of one of the largest PostgreSQL database installations on Earth (multi-terabyte scale). The database environment is a Sun Enterprise Cluster and SAN, as well as a smaller "cloud" of Linux servers.

Tasks included formulating stored procedures for the database, UNIX Shell scripts (tcsh/ksh), perl programming, process automation, UNIX administration (NFS, users, etc). As well as configuration and installation of new servers and creating end-user Web Interfaces.

The project contains some 200 tools, written in Java, Shell, Perl, and C, spread over some 20 different servers (Solaris/Linux/Windows).

We are serving up over 750,000 articles from various ACS publications, exceeding 4 Million TIFF images.

Tasked with investigating a new product or environment for possible deployment in our Journal Delivery Environment to reduce load or increase availability.

Team Lead role.

2000 - 2001

marinalife.com

Systems Administrator

My position at marinalife was that of a Senior UNIX administrator. Because of marinalife's relative youth, My duties included a wide variety of tasks, such as server-side perl development, network design and implementation, creation and management of subnets, RAID configuration, and system-wide software installs. Because marinalife is a web-commerce company, my environment included the care, feeding, and securing of IBM DB2 databases, Allaire (now Macromedia) ColdFusion, and Apache, among other things.

Before 2000:

1998 - 1999

CW Ventures

Cardiff-by-the-Sea, California

Installed Dialup networking. Installed office equipment including workstations, switches, printers, and servers. Also installed several remotely (ISDN) connected satellite offices.

1998 - 1999

AxyS Pharmaceuticals

La Jolla, California

Desktop support. Workstation (Sun, Mac) installation and troubleshooting. Also started my career as a perl programmer here, diagnosing large-scale failures of biotech (PCR) equipment. AxyS was eventually consumed by Celera Genomics.

College:

I studied Automotive Engineering at the following schools:

Palomar College, San Marcos, CA

Mira Costa College, Oceanside, CA

and stopped study 7 units short of a bachelors of science. It's a long story, but basically I had a serious car accident and failed all my classes my last semester. I attained ASE A1 and A8 certifications.

I also spent time at **University of California, San Diego,** studying SQL programming and Database Theory. This was sponsored by AxyS Pharmaceuticals.

Executive Summary (Cheat Sheet)

Operating Systems
SunOS / Solaris 2.4 - 5.10 ("SunOS, Solaris 5, 6, 7, 8, 9 and 10")
Linux: RHEL 3.0, 4.0 AS/ES/WS Fedora Core 1, 2 Yellow Dog Linux (PPC) Linux From Scratch Debian (Sparc)
MacOS: Everything. 1984 to the present Jaguar/Panther/Tiger. Member, ADC, and beta tester
IRIX 5.2 (R4400) through 6.5.18f (R12k)
NetBSD, OpenBSD, FreeBSD, Darwin

Hardware
SPARC: You name it, I've done it. sun4m, sun4u, sun4c, sun4d (really). Ultra Enterprise all the way up through E6500 installation, troubleshooting, teardown, etc. Remote administration (serial). SAN. SunCluster (2, 3). Zealot.
X86: Yeah. Lots of experience with VA-Linux offerings Lots of experience with HP DL360/DL380. Mostly rackmount and not desktop stuff. Remote administration (serial).
Mac: Mac 128/512 up through XServe and XServe RAID. 680x0, 60x, 75x, 74xx...
SGI: Challenge/PowerChallenge, PowerSeries, Onyx, Octane, O2, Origin, VGX, VGXT, RE, RE2.

Programming Languages
Perl: Expert. 1998 – Present. Zealot. Asynchronous (POE), DBI, CGI, lots and lots of network programming experience. I speak (sometimes literally) many protocols, including SMTP, IMAP, POP, and others.
Shell: Expert. 1998 – Present. Csh. Bash. Zsh (preferred). Ksh (preferred). Tcsh. Zealot. My .zshrc is over 1800 lines.
C: Fluent, but rusty. 1996 (College, 2 years) to present. Mostly a passing familiarity due to my relationship with UNIX.
Ruby: Intermediate. 2001 – Present.
SQL, PL/SQL. Intermediate. More of an administrative than strictly development role. 2000 – Present. Focus on PostgreSQL.

Spoken Languages
I speak fluent english and conversational Mandarin Chinese.

Speaking/Teaching Engagements
I am a regular speaker at the STOS Consortium, speaking on Information Security and Assurance.
I provide a simulated computer attack ("Red Team") for George Washington University's ECE 295 "Honeypots" course.

I thank you for your time reading this document, and I look forward to the opportunity to work with you.