

Curriculum Vitae

Mark Foster

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Mark Foster is a technology expert with over 20 years of experience in computer systems, programming, Internet, networking, databases and security.

Professional Experience

Support Engineer / Coach **EMC² Isilon Storage Div.**

2011 – Present

I provide Tier 3 support of Isilon "Scale-out NAS" storage clusters. Expertise covering NFS, SMB, iSCSI, Kerberos, LDAP, DNS, NTP, FreeBSD, performance, security and Isilon-specific functionality like SyncIQ and InsightIQ. Designated as coach for Unix Protocols team. Mentoring 20+ team members on case work for root cause analysis, troubleshooting & escalations.

Sr. Systems Engineer **BitPusher, LLC.**

2008 – 2011

Worked as consultant and service provider with various clients mostly of the web 2.0 flavor, Managed infrastructure: network, systems, security, database and web application stacks (LAMP, Ruby on Rails, Tomcat/J2EE, virtualization, monitoring, performance, scaling and backups. Heavy use of monitoring tools (Nagios, Cacti, Munin, Zabbix, NRPE, SNMP Rrdtool), LDAP and DNS. Security audits, vulnerability assessments & PCI compliance. Clients included WuFoo (acquired by Survey Monkey 2011), Offbeat Creations (acquired by Playdom then Disney in 2010), Serious Business (acquired by Zynga 2010), Electronic Arts (EA), Sendgrid, Mesmo (GSN), Catch.com and LOPSA.

Sr. Linux Server Engineer **Port of Seattle**

2004 - 2008

Managed upwards of 75 Linux and HP-UX servers, Redesigned DNS architecture - migrating to BIND9 on Linux co-existing with MS DNS in Active Directory. Steer and implement virtualization strategy using VMware ESX server, Platespin P2V and backup solutions. Develop, document and nurture system standardization and infrastructure management tools (CFengine, Nagios, CVS, Yum and RHN).

Improvement of system & network security leveraging Nessus, nmap, Snort+ACID (NIDS), IPtables, tcp_wrappers. Establish patching procedures and cycle. Active participation in change management and security team meetings. Consulting with Windows server engineering, networking, security and systems development groups to determine/implement solutions. Lead role as WebSphere administrator. Key player in IBM Websphere upgrade from 5.0 to 6.1. Security scanning and vulnerability assessments.

System Engineer

VeriSign

2000 - 2004

VeriSign Naming and Directory Services, formerly known as VeriSign Global Registry Services) via acquisition of eNIC Corporation in 2001.

Primary engineer for .CC and .TV and numerous other top-level country code domains (ccTLDs). Managing close to 100 FreeBSD and Linux servers, IPFilter, IPtables, Netscreen and Sidewinder firewalls, Cisco and Alteon load-balancers/routers, network security, assorted MySQL and Oracle databases, [ccTLD](#) root-listed nameservers running BIND. Worked with other team members designing applications which use: DNS(BIND), Email & Web Forwarding, Apache+mod_ssl, mod_perl, FastCGI, Tomcat, LDAP (OpenLDAP), MySQL, Oracle. Deployed global network & host monitoring system. Involved or lead multiple physical/logistical migrations and VPN deployments.

Lead Engineer

Altrec.com

1998-2000

Designed and programmed initial web site prototype. Developed and launched full-scale e-commerce web site ([altrec.com](#)) with a team of 4 programmers. Determined appropriate site architecture using Apache web server and Java on Linux and SQL Server database. Built and maintained development and deployment systems. Network/system administration, including migration from peer-to-peer to client-server (domain) topology. Deployed multiple servers including Exchange Server 5.5, DHCP, DNS, HTTP, Proxy, FTP, Samba and routers with packet filter and NAT technology. Managed team of five.

Internet Services Manager

The Welland Company

1998

Manage network and Windows 95/NT, Linux and AIX systems. Programming in C, Java and Perl - interfacing with SQL Server, Lotus Organizer. Deployed DHCP, E-Mail and Proxy servers.

Webmaster

Medius Interactive

1995-1998

Web designer, programmer and system administrator for New York Yankees, Atlanta Braves and Seattle Mariners web sites, just to name a few. Web development using Perl, Java, Javascript, HTML and mSQL/MySQL. System administration on SGI, Linux and Sun platforms. Web server installation and configuration (NCSA, Apache, Netscape, IIS). Database administration.

Technical Illustrator / Drafter

Boeing

1992-1995

Customer Services / Maintenance Publishing Division
Produced detailed technical illustrations for maintenance manuals. Scanned printed drawings and converted to vector (digital) format. Beta tester for Catia v4 roll-out. BOGART illustration system, [CATIA](#), Flythru and board drafting.

Certifications

Certified Digital Forensics Expert

2012 University of Washington P&CE

Certified Information Systems Security Professional (CISSP)

2004-2010 ISC²

Microsoft Certified Systems Engineer (MCSE)

1999 Microsoft

Education, Training and Professional Development

Digital Forensics Certification 2012 University of Washington P&CE

Sentinel Cybersecurity Training 2007 – Cybersecurity – Incident Handling and Response. Through Dept. of Homeland Security

Computer Forensics Course 2006 – Edmonds Community College

CISSP Certification 2004-2010 - Certified Information Systems Security Professional #57439 ISC²

MCSE Certification 1999 Exams: NT Server, Windows 98, TCP/IP Networking, SQL Server 6.5 Admin.

AA Degree 1998 Courses: Calculus, Physics, C programming, Philosophy, Desktop Publishing. North Seattle CC

Certified Technical Illustrator / Drafter 1992 Courses: Engineering Drafting / Technical Illustration. Lake Washington Technical College

Publications

Technical Reviewer for *The Definitive Guide to pfSense*

Covers installation and configuration of networking and firewall/VPN functionality of this popular open source firewall and router distribution. Publication Date: November 1, 2009 ISBN-10: 0979034280

Presentations Given

Security Tools: pfSense, Xca, Keepass, OpenSSL, Nmap & Nessus
DNS on Linux – all about the name to address directory that makes the Internet “work”. Given three times.
Puppet – a configuration management suite.
Packaging (RPM/DEB) – Describes software packaging techniques on Linux.
Exim and SPF – e-mail server and anti-spoofing software mechanism.

Projects & Associations

League of Professional System Administrators (LOPSA) – active member of local chapter (SASAG) Since 2001. Volunteer mentor.
Greater Seattle Linux Users Group (GSLUG) – co-leader, webmaster
Seattle BSD Users (SeaBUG) – co-leader, webmaster
Free Geek Seattle – Founder, active board member, webmaster
Linux Fest Northwest (LFNW) – 3 time presenter and volunteer.
FreeBSD - Ports Maintainer since about 2003. Developed VuXML Wizard to protect against security vulnerabilities.
AGORA – Seattle computer security forum – attendee.

Research (as Credentia)

Internet SMTP Survey – 2002
http://www.stillhq.com/research/smtpsurveys_feb2010.html

DNS TLD Name Server quality tests. 2003
[ccTLD Name Server Delegation Report Card 2003](#)