

Curriculum Vitae

Mark D. Foster
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Mark Foster is an information technology expert with over 2 decades of experience in computer systems, networking, programming, databases and cybersecurity.



Professional Experience

Sr. IT Systems Engineer

2014 - Present

Setup and maintenance of numerous physical, virtual and cloud systems. Network architecture, administration, design, firewalls, IP routing, VPN and network segmentation (VLANs). Acting as project manager using Agile methodology. Manage and improve internal PKI, LDAP, Active Directory and 802.1x authentication/authorization systems.

ExtraHop Networks

Escalations Engineer / Coach

2011 - 2014

I provided Tier 3 engineering escalations support of Isilon "Scale-out NAS" storage clusters. Serving dual roles as Coach for the Unix Protocols team, and as a support escalations engineer. Expertise covering network protocols (NFS, SMB, iSCSI, Kerberos, LDAP, DNS, NTP) and systems (FreeBSD, Linux, Mac OS X), performance, security and Isilon product-specific functionality like SyncIQ and InsightIQ. Mentoring 30+ team members on case work for root cause analysis, network troubleshooting & performance. Liaison with Post-Release and Core engineering teams. Support of enterprise customers including Disney, Pixar, Intel, Broadcom & Costco.

Dell/EMC Isilon

Sr. Systems Engineer

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.

BitPusher, LLC.

Sr. Linux Server Engineer

2004 - 2008

Port of Seattle

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.

Systems Engineer

VeriSign / eNIC

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). Managed 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

Built first working web site prototype. Developed and launched full-scale e-commerce web site ([altrec.com](#)) with a team of programmers. Determined appropriate site architecture - using Apache web server and Java on Linux and SQL Server database. Built and maintained development, deployment & database 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 / CTO

Medius Interactive

1995-1998

Web designer, programmer and system administrator for New York Yankees, Atlanta Braves and Seattle Mariners MLB web sites. 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 of Boeing Commercial Airplane Group. 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

CompTIA Advanced Security Practitioner (CASP)

(2018) ID#COMP001021330032

Certified Digital Forensics Examiner

(2013) University of Washington P&CE

Certified Information Systems Security Professional (CISSP)

(2004-2010) #57439 ISC²

Microsoft Certified Systems Engineer (MCSE)

(1999) Microsoft

Technical Illustration

(1992) Lake Washington Technical College

Education, Training and Professional Development

CompTIA Security+

(2018)

Applied Digital Forensics

(2013) University of Washington P&CE

DHS - Sentinel Cybersecurity Training

(2007) - Cybersecurity - Incident Handling and Response

Computer Forensics Course

(2006) - Fundamentals. Edmonds Community College

Associates Degree

(1998) North Seattle Community College

Courses: Calculus, Physics, C programming, Philosophy, DTP

Technical Illustrator / Drafter

(1992) Lake Washington Technical College

Courses: Drafting, AutoCAD, Technical Illustration

Projects, Associations and Industry Affiliations

City of Seattle - Technical Advisory Board (CTAB) - participant.

League of Professional System Administrators (LOPSA) - active member of local chapter (SASAG). Volunteer mentor.

Greater Seattle Linux Users Group (GSLUG) - co-leader.

Seattle BSD Users Group (SeaBUG) - co-leader.

Free Geek Seattle - Founder and board member.

Linux Fest Northwest (LFNW) – Presenter and volunteer.
FreeBSD - Ports Maintainer. Security Researcher.
The AGORA - member.
Electronic Frontier Foundation (EFF) – supporter.

Talks / Presentations

Ansible
DNS
Puppet
Security Tools: pfSense, Xca, Keepass, OpenSSL, Nmap & Nessus
Software Packaging on Linux (RPM/DEB)
Exim
Mediawiki
Bugzilla

An up-to-date, online version of this CV may be found at
<http://mark.foster.cc/cv.pdf>