April King

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Computer skills:

Operating Systems:

Windows 2000 - Windows 7 (client)
Windows NT – Windows 2008R2 (server)
Sun Solaris 2.5 - 10
Linux 2.0.10+ (most major distributions)
FreeBSD & OpenBSD
MacOS X

Development Languages:

CSS / HTML / JavaScript
PHP
Python
Shell (bash, zsh, etc.)

Technologies:

Android (adb, apktool, Eclipse)
Apache HTTP Server
CA Siteminder
CVS / SVN / Git
DNS
Google AdSense / Webmaster Tools
jsPDF
jQuery
nginx
OpenSSH
OpenSSL
PostgreSQL
Samba
Sun Java System Directory Server
Sun Java System Web Server
Sun Java System Web Proxy Server
Vormetric Data Security Manager

Certifications:

GIAC Penetration Tester (GPEN)

Security Vulnerability Discoveries:

Vormetric Transparent Encryption
CA SiteMinder (CVE-2011-1718)
Equifax Anakam TFA

Experience:

May 2015 – Present
Mozilla Corporation
Senior Security Engineer

- Primary developer on Mozilla's HTTP Observatory, a tool to test site configurations for proper behavior.
- Wrote Mozilla guidelines on Web Security implementation
- Public presentations on cryptography, Let's Encrypt, and Subresource Integrity
- Coordinated the discontinuation of the RC4 cipher amongst major browser manufacturers
- Developed company-wide cryptography curriculum
- Assisted in creation of UI mockups for TLS error pages
- Secondary developer on a number of projects, including badssl.com, Minion, Zed Attack Proxy (ZAP), Server Side TLS, TLS error pages, and Cipher Correspondence Table

February 2014 – May 2015
Wells Fargo, Inc.
Information Security Engineer, AVP

- Technical team lead for half-dozen Vormetric engineers, with an environment containing 40 Data Security Manager appliances and over 12000 encrypted servers.
- Lead project to deploy Vormetric client software to over 6000 bank branch servers in nearly all major US cities.
- Provided architectural and design feedback to Vormetric for upcoming versions of software, including over 50 requests for enhancement.
- Assisting Enterprise Information Security Architecture in researching and setting cryptographic standards.
- Reverse engineering and penetration testing of Vormetric agents and DSM appliances.

March 2004 – February 2014
Wells Fargo, Inc.
Information Security Engineer

- Technical team lead for a dozen Siteminder engineers, with an environment containing 100+ policy servers, 400+ applications, 15+ user directories, and 3000+ web servers, serving over 250,000 users and handling over 6 million daily authentications and 15 million daily authorizations: one of the largest installations worldwide.
- Siteminder lead, responsible for building an infrastructure from Siteminder 4 up to Siteminder R12 SP3.
- Support of Apache, IIS6, IIS7, IIS7.5, Sun Java System Web Server, IBM HTTP Server, and IBM Domino Web Server on Windows, Linux, Solaris, AIX, HP-UX, and IBM zSeries mainframe systems.
- Siteminder silent authentication portal system designer, allowing all non-Windows systems access to NTLM silent authentication.
- Apache Reverse Proxy + Siteminder single sign-on integration for systems located in India as well as J2EE app servers and non-standard web servers (e.g., Zeus).
- Penetration testing of Siteminder agents and policy servers, as well as assisting groups in detecting and ameliorating cross-site scripting (XSS) vulnerabilities.
- Development of standardized AJAX-based login and authentication error pages used bank-wide.

Education:

September 2001 – May 2005
University of Minnesota, Minneapolis, MN
- BA (with Distinction)
- Psychology (major), Japanese (minor)

September 1997 - May 1999
Anoka-Ramsey Community College, Coon Rapids, MN

June 1999
Blaine High School, Blaine, MN
- High school diploma

Training:

USENIX Enigma Conference (2016)

SANS GPEN (2014)

CA World (2012)

IBM Learning Services
Linux/390 Boot Camp

Sun Educational Services
Solaris System Administration II
Java System Directory Server (LDAP) EE 6: Maintenance and Operations

Activities:

April, 2000 - Present
Author and contributor to numerous OSS projects, including:
- badssl.com
- Textual IRC client
- Decklist.org, a PDF creation site used by thousands of independent game shops.
- MTG Familiar (a popular and widely used Android application)
- ZAP (Zed Attack Proxy)

October 2014 – Present
GIAC Advisory Board

January 2005 – Present
College & University Guest Lecturer on Gender Studies

Languages:

English (Native)
Japanese (Low)

July 2002 - March 2004
Lifecycle Technologies for Wells Fargo, Inc.
Contractor
- Solaris, Linux, and Windows systems administrator for test environment (development, testing, user acceptance).
- Siteminder administration (web agent installs, policy creation and migration, monitoring and policy server maintenance) through multiple environments (test and production).
- CVS administrator.
- Python programming, including LDAP queries/reporting, Siteminder test, migration automation, and monitoring.
- Installation and configuration of an environment-wide (production and test) monitoring system (Nagios).

April 2000 - July 2002
SuperValu, Inc.
Technical Analyst (UNIX Systems Engineer)
- Administration of Apache/iPlanet web servers. Includes integration with PHP, Siteminder, mod_ldap and Jrun.
- Administrator, architect, and primary point of contact for: Apache/iPlanet web servers, iPlanet LDAP servers, Internet FTP servers (ProFTPd), CVS servers, SSH servers, proxy/caching servers, SMTP (Qmail) and encryption (PGP) servers.
- Solaris (SPARC) / Linux (i386 & S/390) systems administrator. Includes operating system installation, configuration, tuning, maintenance, package creation, and hardware and software installation.
- Perl & PHP programming, including development of UNIX Technical Services website, LDAP query engines, and remote paging applications.
- CVS administrator and trainer. Included bi-monthly training on use of client-side usage of CVS on UNIX and Windows platforms (WinCVS), in addition to repository maintenance and conflict resolution.
- UNIX security implementation. Includes SSH rollouts, DMZ deployment plans (for internet-connected UNIX servers), installation procedures, and services configuration.
- Light NT system administration involving workstation setup, networking, as well as IIS Checkpoint Firewall administration.