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**Skills:**

1=Exposure  
 2=Knowledgeable  
 3=Advanced  
 4=Expert

<u>Programming</u>		<u>Databases</u>		<u>Software</u>		<u>Data</u>	
PHP	4	ANSI SQL	4	FreeBSD	4	HTML	3
Perl	2	MySQL	3	Linux	3	CSS	3
FoxPro	2	PostgreSQL	4	Solaris	1	XML	3
JavaScript	2	MS SQL Server	2	Windows	3	PDF	3
Java	2	Access	2	Mac OS X	3	SGML	2
bash	3	Pervasive SQL	1	MS Office	2	CNC	3
C	3			OpenOffice	2	LDAP	2
C++	1	<u>Infrastructure</u>		CVS	3		
Visual Basic	1	IP Networking	4	Apache	3		
Fortran	1	DHCP	4	qmail	3		
C#	2	DNS	3	Sendmail	2		
		WINS	3	Photoshop	2		
		SMTP	4	GIMP	3		
		HTTP	3	Postfix	2		
		Network Security	3				

**Work Experience:**

**2005 - present**

**Collaborative Fusion Inc., Pittsburgh PA: Systems Engineer**

- Lead database administrator/developer: Develop PHP backend database code. Optimize database structure and queries. Plan, deploy, and manage multi-facility database replication.
- Network designer/administrator: Configure and deploy FreeBSD servers in multiple roles. Plan and deploy backup infrastructure. Administer routers, firewalls, managed switches, load balancers, and VPN connections. Develop and deploy virtual machine infrastructure. Automate tasks. Develop documentation.
- Web application developer: Assist with the development of the client product using PHP and PostgreSQL.

**2001 - 2005**

**Potential Technologies, Pittsburgh PA: Lead developer / Managing Partner.**

- Primary developer for the TrollBooth project, including development of the Whitelist Adviser. <http://www.trollbooth.org>
- Designed a PHP class library for dynamically generating PDF files
- Planned, installed and maintain business network including Windows, Linux, Solaris and FreeBSD workstations, test network, firewall and proxy server, file and print

server, database server, web server, sourcecode versioning server and mail server.  
Software actively in use: FreeBSD, Windows 98, Windows XP Pro, Samba, MySQL, Apache, PostgreSQL, Postfix, CVS.

#### **2004 - 2005**

**SIA Program, Pittsburgh PA:** IT Consultant.

- Aided CMU in development and deployment of SIA curriculum and lab.
- Co-instructed SIA courses
- Developed distribution method for complex lab configuration.

#### **2003 - 2005**

**The Oasis Group Ltd, Summit NJ:** Contract Software Developer.

- Port <http://www.ofasearch.com> to C, perl, PHP
- Maintain the new publicly available OFACSearch web server
- Write server side of Agelis in C. Agelis is a massive database system for the management of public debt.

#### **2002 - 2005**

**Compunetix, Monroeville PA:** IT Consultant

- Consulted with IT staff during planning of switchover of email services from external to internally handled
- Assisted in configuration and installation of email server using the following software: FreeBSD, qmail, SpamAssassin, qmail-scanner, F-Prot antivirus.

#### **2000 - 2005**

**Priority Designs, Columbus OH:** IT Consultant

- Installed a server farm that consists of three FreeBSD servers and provides filesharing, email, backup, proxy, firewall, and print services for Windows, Macintosh and UNIX clients, as well as email, WWW, and FTP services to the Internet at large. Software used includes: FreeBSD, Samba, Netatalk, Apache, BIND, Amavis, Sendmail.
- Provide as-needed network support remotely via SSH and VNC.
- Develop Perl applications to automate administrative activities.
- Planned and configured DHCP network using isc-dhcpd.

#### **1999 - 2002**

**lowna Software Company, Greensburg, PA:** IT Consultant

- Installed and configured RADIUS services using FreeBSD and Ascend.
- Installed, configured and maintained web server using Apache and FreeBSD that housed six web sites.
- Installed, configured and maintained email server using FreeBSD and qmail that serviced hundreds of users from multiple domains.
- Configured and maintained DNS services using both Microsoft DNS server and BIND.

Also subcontracted through lowna for:

**Redstone Highlands, Greensburg, PA:** IT Consultant

- Installed, configured and maintained a Linux database server running both MySQL and Pervasive SQL.
- Assisted with installation and maintenance of wireless WAN.

- Installed, configured and maintained 2 FreeBSD packet-filtering firewalls that provided HTTP proxy/cache services, IP routing, IP packet filtering, DHCP, and bandwidth control.
- Installed, configured and maintained 2 FreeBSD servers that provided file and printer services to Windows clients, as well as backup services using Samba, NFS, rsync and NIS.
- Installed, configured and maintained internal DNS servers using FreeBSD and BIND.
- Installed, configured and maintained FreeBSD dial-in server that provided remote access to the internal network.

### **1992 - present**

#### **Craft Manufacturing, Latrobe, PA: IT Consultant**

- Planned, setup and maintain all aspects of business network (IP configuration, security, routing, wiring, hardware procurement)
- Install, configure and maintain Windows NT domain controller which provides file and printer services.
- Install, configure and maintain MS SQL Server.
- Install, configure and maintain FreeBSD server that provides web proxy services, firewall, Internet email, DHCP and internal print spooling.
- Wrote Perl application to simplify generation of NC programs.
- Developed FoxPro database to manage all aspects of production, including organization, scheduling, shop tracking, and document management.
- Developed and delivered training to engineers on MetalSoft CNC software.
- Developed programs written in C to automate the creation of instructions for robotic machining (CNC).

### **2001 - 2002**

#### **Daemon News Magazine <http://www.daemonnews.org>: Various technical articles:**

- Firewalls: <http://www.daemonnews.org/200103/firewall.html>
- Dial-in server: <http://www.daemonnews.org/200105/dialup1.html>
- Dial-in server: part 2: <http://ezine.daemonnews.org/200202/radius.html>

### **Education:**

#### **Certified MySQL Core**

#### **Introductory Dreamweaver and Fireworks Course**

#### **Franklin-Covey Time Management Course**

Sponsored by Bank One

#### **Associate in Specialized Technology: CADD systems management**

Pittsburgh Technical Institute

References available upon request.