

# **Ian S Samuel, B.Sc. CIS - Sr. Unix Systems Administrator/Internet Consultant - Toronto, ON**

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I am self-motivated, self-taught and a logical thinker. I am looking for the opportunity to continue to do Administration and Architecture on Linux/Unix based networks.

## **Technical Skills**

*Operating Systems* - UNIX (Linux – 8 years, Solaris – 2 years, FreeBSD, NetBSD, BSDi), DOS, Windows (3.x, 95, 98 & NT Server/Workstation, Windows 2000)

*Software* - Apache, PHP, MySQL, PostgreSQL, Netscape Enterprise Server/iPlanet, ColdFusion Server, Sybase, IIS, Samba, Oracle, XML, LAMP, CVS/RCS, DRBD and Intermezzo filesystem replication

*Programming Languages* - HTML, Perl, Bash/Shell Scripts, Expect, PHP, CFML, SQL, C/C++

*Networking* - LANs, firewalls and proxies, web servers, Cisco Catalyst switches/routers, WAN (ISDN, T1, DSL), Routing, DNS, Sendmail, POP3, IMAP, qmail, LDAP, postfix, file and print servers, bind/named, dhcp

## **Work Experience**

### **Consultant**

#### *Unix/Linux Systems Administrator*

- Linux and FreeBSD consulting for various clients
- Security audits (Nessus, ethereal, software upgrades) and consulting for internal and external threats
- Systems architecture and planning
- Programming and web site support using PHP
- Design and deploy fail-over and load sharing solutions for web servers
- E-mail support for Postfix and qmail-ldap
- KDE configuration and installation for workstations
- Intranet/Extranet planning
- Vinum disk mirroring

### **Jazz Monkey Media Inc.**

#### *Sr. Unix Systems Administrator (January 2001 – present)*

- Network restructuring
- Network/System design
- Designed/deployed new server farm (21 Linux/x86 servers, private NFS network, NAS)
- Maintained LAN/WAN and 47 Unix servers (TurboLinux, RedHat, BSDi)

- Brought up new 100 Mbit dark fibre link (100 base-FX), and new bandwidth providers
- Configured multi-homing with 2 ISP's using Cisco IOS routers and BGP and NAT
- Configured Linux as router and firewall managing > 50 mbits/sec of IP traffic
- Upgraded and restructured DNS and email systems solving problems of inconsistent lookups and lost mail. Migrated to qmail using LDAP from sendmail.
- Full security sweep and lockdown including installing SSH on all servers and adding a management network based on private IP addresses
- Network renumbering to new address space
- ISDN configuration
- Built development servers using Samba, CVS, and software raid-1
- Deployed network management and monitoring tools including Big Brother and MRTG
- Assembled web-mail system capable of thousands of users

### **Passport Systems Inc.**

*Web Systems Administrator (April 1999 – January 2001)*

- Build and maintain 12 Unix web servers (Solaris 7, Linux, FreeBSD, Apache, NES – Netscape Enterprise Server, Cold Fusion 4.0/4.5, Oracle, Sybase), including managed servers for co-located clients.
- Designed and developed a web-based corporate database for client information, services and call tracking (ERD, programming, user interface design)
- Build and maintain 2 NT web servers (Netscape Enterprise Server, IIS, Cold Fusion)
- Maintain Real Audio server with 400 stream license (Linux – with 2 encoder servers)
- Perl programming, PHP, CFML, Flash Generator, I-Chat, SSH
- Troubleshooting client issues and LAN/WAN
- Office LAN administration (Windows workstations and NT servers)
- Backups (Veritas BackupExec for NT, AMANDA for Unix)
- Replaced Windows NT servers with Linux (using Samba)

### **Evans Consoles Inc.**

*Member of IT Support Team/Network Administrator (May 1998 – April 1999)*

- Internal help desk support for Windows 95/NT desktops (with Office and AutoCAD)
- Built and maintained a Linux proxy server (Red Hat, Squid, SOCKS, TIS FWTK)
- Maintained HP-UX (9.x – 10.x) Solid Designer stations
- Maintained TCP/IP Ethernet LAN (10/100-base-T and 10-base-2) and NT 4 Servers
- Cabling, hubs, switches, T1 line, ISDN lines, CISCO routers
- Implemented a dedicated Internet connection (ADSL/MVL) and web server (IIS 4.0)

## **Primetime Internet Communications Inc.**

*System Administrator/Webmaster (April 1996 – June 1999)*

- Built and maintained a UNIX (Linux) Internet server with Web Pages, E-mail
- Apache, FTP, telnet, Real Audio server, DNS
- Shell scripts, process automation, cron
- SQL Database engine (MySQL)
- HTML Programming and maintenance (PERL, CGI, Flash 3, web database)
- 3-tier database: SQL - Perl - HTML Browser
- Multiple domains (virtual hosting)
- Backups using CPIO and tar

## **Educational Background**

- Graduated *Magna Cum Laude* from **DeVry Institute of Technology**, Calgary, Alberta with a B.Sc. in Computer Information Systems.
  - Networking – Windows NT, Novell, Linux
  - Programming – C/C++, Lotus Notes, Java, COBOL, SQL, PL/SQL
  - Database – Oracle (DBA), Access, Delphi, Visual Basic
  - Systems Analysis

## **Courses**

- FastTrack to ColdFusion (*November, 1999*)

## **Interests**

- I maintain my own Linux Internet servers at home for DNS, Webmail (IMP/Horde), database, qmail, Apache, file and print servers. Machines are connected in an openMosix cluster.
- I play drums, flute, piano, tuba, bass guitar, and French horn. I enjoy composing and arranging music on the computer, as well as listening to many types of music.

## **Awards**

Alberta Treasury Branches, Bronze Award of Excellence in 4-H. (1993)

Music Festival Awards (Instrumental). (1993-94)

Chief Scouts Award. (1992)

Academic/Scholastic Honors. (1983-1995)