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A continuing record of Leadership, Entrepreneurial and Technical achievement,
and Professional and Community Involvement,

Successful, driven, Internet/e-business/technical executive and leader, is interested in considering new contract or short- to medium-term opportunities in technical implementation and leadership.

Special interests and areas of expertise include system and network monitoring and recovery, Voice over IP and open source telephony, internet and server technologies, service provider environments, open source software implementation and integration, and system and network resiliency, reliability and scalability.

Recent Projects

- Implement redundant, load balancing firewalls for a web hosting company, using open source technologies, and low-cost commodity hardware
- Per-IP address bandwidth utilization reporting using Argus and FreeBSD
- Plan and implement a mail server upgrade (software/hardware) for a national ISP
- Custom projects using the Asterisk PBX software, using PRI and analog connections, including conferencing server, and PRI gateway.
- Design and implement a multi-office, integrated VoIP and analog telephony telephone system, using commodity hardware and open source software
- Design and implement internal system and network monitoring for a company providing a web-based service, enabling them to identify and resolve bottlenecks in their application
- Develop and deploy proxy and monitoring tools for use with integrated office servers connected via low-cost DSL and cable Internet connections that block open public server ports
- Implement a monitoring system to allow a hardware and services VAR to effectively monitor their clients' infrastructures
- Develop and deliver customized training for the Network Appliance Netcache, for a major ISP's internal staff
- Design a network boot infrastructure for quickly deploying FreeBSD or Linux servers
- Customization of open source firewall appliances for connection tunneling to a service provider.

Technical depth and experience includes: UNIX and variants, FreeBSD, Linux; Windows servers and integration; local and wide area IP networks; system and network monitoring; VPNs, firewalls and security; operations and operational readiness; open source software implementation and integration; scripting languages (shell, Perl, Tcl); web technologies (Apache, PHP, CGI, WML); high-availability and reliable systems and networks. IP networking since 1984, UNIX since 1983, programming since 1974.

Relevant Employment

- 2003 to Present **Proprietor, SYONEX, Toronto** Specializing in Systems, Operations, Networks, Expertise, and offering contract implementation and specialized products for internal system administration and service providers. Customers include KPMG, MCI, and Magna Systems.
- 1999/06 to Present **General Manager, Certainty Solutions Canada Inc., Toronto** Established Certainty Solutions' successful Canadian operations, providing ongoing system administration and operations services and related consulting, in a very challenging business and economic environment. Responsible for all aspects of the Canadian operations, in a varied and challenging "hands-on" technical environment, and for developing and signing customers that include Rogers Cable, Toyota Canada, Telus, epost and WorldCom.
- 1998/03 to 1999/06 **Director of Network Engineering, UUNET Canada**
- 1997/06 to 1998/02 **Network Engineer, UUNET Canada**
- 1986/04 to 1997/08 **System Administrator and Project Leader, University of Waterloo.**

Presentations and Seminars

- "System and Network Monitoring", Introduction and Tools in Depth, two full day tutorials, USENIX and LISA Conferences, since 2001.
- Invited speaker on Managed Services, "Designing an External Infrastructure" and "The Emergence of Managed Services"; "Selecting the Right Web Host" conference, Strategy Institute, Toronto, June, 2001.
- "Network Management with SNMP", short course, SANS conference, May 1999.
- "Towards Less Insecure Administrative Networks" OUCC 26 – Ontario Universities Computing Conference, May 1996.
- Developed and presented numerous departmental and campus-wide seminars while employed at the University of Waterloo.

Publications

- “System and Network Administration for Higher Reliability”, SAGE Short Topics in System Administration series, USENIX Association, 86pp, 2001.
- Numerous articles in *;login:*, the USENIX Association magazine.
- “filetsf: A File Transfer System Based on lpr/lpd”, *USENIX LISA IX Proceedings*, September 1995.
- “SPP – Low Tech, Practical, UNIX Software Portability”, *USENIX UNIX Applications Development Symposium Proceedings*, April 1994.
- “Software Maintenance in a Campus Environment: The Xhier Approach”, *USENIX LISA V Proceedings*, October 1991.

Professional Involvement

- Elected member of the System Administrators Guild (SAGE) executive, 2003
- Member of the USENIX Association; USENIX university liaison while at UW;
- Member of the program committee for the USENIX LISA Systems Administration conferences in 1997, 1998, 2001, 2002
- Open source software author and contributor
- Member of the Institute of Chartered Accountants of Ontario since 1983

Education

March 1986	Master’s degree in Computer Science, University of Waterloo.
May 1983	Chartered Accountant
April 1982	Honours Bachelor of Mathematics, University of Waterloo