

Dan Siemon

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Highlights

- Entrepreneurial, high-energy professional with experience and success in both the management and technical aspects of business.
- Enjoys a challenging and dynamic work environment.
- Ten years of experience managing Linux servers and heterogeneous network infrastructure.
- Well organized with the ability to prioritize and delegate as appropriate.
- Achieved the highest academic average in Honors Computer Science (92%).

Education

University of Western Ontario, London, Ontario, Canada 2005 – 2007

Master of Science (MSc) – Computer Science

University of Western Ontario, London, Ontario, Canada 2001 - 2005

Bachelor of Science (BSc) – Honors Computer Science with Distinction

Professional Experience

Sandvine Incorporated July 2007 - Present

Consulting Systems Engineer

Work with partner companies to develop and test product integration. Develop new high value solutions based on core products. Respond to large telecommunications RFPs. Feed new product requirements to product engineering.

Mornington Communications Co-Op Ltd. 2001 - 2006

Part-time Network Administrator

Continue to gain knowledge and experience in the management and provisioning of heterogeneous, mission critical IP networks while attending University.

Mornington Communications Co-Op Ltd. 2000 - 2001

Network Administrator

Responsible for the technical aspects of the Internet operations for an independent telephone company offering website hosting, dial-up and high speed services over both wireless and DSL technologies. Expanded the network to handle a rapidly growing number of high speed customers and added network monitoring to increase the reliability of the network. Left position to attend University.

Strat.Net Internet Services 1997 - 2000

President and Founder

Successfully developed an Internet service provider business from initial conception through to profitable sale. Responsible for all marketing, customer support and technical aspects of the business. Managed employees and built relationships with other local businesses.

Teaching

CS208 – Fundamentals of Computer Organization Winter and Fall 2006

Teaching Assistant

Planned and operated one hour weekly tutorial sessions in lecture format. Assisted undergraduate students with problems relating to the course material. Marked assignments.

CS210 – Data structures and Algorithms Fall 2005

Teaching Assistant

Assisted undergraduate students with problems relating to the course material. Marked assignments and exams.

Awards and Scholarships

- Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship (PGS-M) (2005 – 2007)
- Western Graduate Tuition Scholarship (2005 – 2007)
- Ontario Graduate Scholarship (OGS) (2005) [Declined]
- University of Western Ontario Gold Medal for Honors Computer Science (2005) [Highest overall average]
- NSERC Undergraduate Student Research Award (USRA) (2004)
- Nortel Networks Scholarship of Distinction in Computer Science (2004)
- Dean's honor list (2004)
- Nortel Networks Scholarship of Distinction in Computer Science (2003)
- Edna Jeffrey Scholarship (2003)
- Dean's honor list (2003)
- Dean's honor list (2002)

Certifications

- Cisco Certified Network Associate (CCNA) [Expired during university, happy to recertify]

Familiar Technologies

- Programming languages: C, C++, Java, Python, SPARC assembly, PHP, shell scripting (primarily bash).
 - Less extensive use: Perl, C#, SQL, Javascript.
- Network protocols: IP, TCP, SMTP, HTTP, XMPP/Jabber, BGP, OSPF, RIP, RADIUS, POP, IMAP.
- Version control: CVS, Subversion, Git, Mercurial.

Network equipment

Due to my experience in an ISP environment I am familiar with network infrastructure equipment from many companies.

A few examples include:

- Nortel (Alteon switches and CVX).
- Cisco (routers and switches).
- Foundry (routers and switches).

Open source projects

- Pnet – A Linux kernel module which allows individual processes to implement their own TCP/IP network stack.
- UNL – An implementation of the IP, UDP and TCP protocols for use with Pnet.
- LQL – GObject based C API to manipulate the network queueing disciplines, classes and classifiers in the Linux kernel.
- LQL-Sharp - A Mono binding to LQL allowing for the use of LQL in C#.

Other interesting projects

- A Java class loader and virtual machine capable of executing simple Java class files. Implemented features include object inheritance and virtual method invocation.
- Implementation of the RSA and AES encryption algorithms.