

Troy Ronda

M.Sc. Computer Science
University of Toronto '07

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Education

September, 2005 – April, 2007

University of Toronto, Ontario

Master of Science (Computer Science) with thesis, iTrustPage: Pretty Good Phishing Protection

September, 2000 – April, 2005

University of Lethbridge, Alberta

Bachelor of Science (Computer Science) with Great Distinction, with Co-operative Education

Professional Experience

1. **OANDA Corporation (Toronto, ON), Software Developer**
(01/2008 – present)

I am a developer with the rates group at OANDA Corporation. My main project is the development of a high performance database engine that is customized for rate data. This work mainly consists of development activities in C++ and Perl.

2. **Zumara Systems (Toronto, ON), Co-Founder and Developer**
(09/2007 – 12/2007)

I was the co-founder and a developer at Zumara Systems. We worked on two main projects. First, we built applications for the Facebook platform. Second, we implemented a new Web architecture prototype for the music industry.

3. **Microsoft Corporation (Redmond, WA), Microsoft Research (MSR) Intern**
(05/2007 – 07/2007)

I was a twelve week summer intern at Microsoft Research. I participated in the research and development of AJAX related technology. My work consisted of research activities as well as development using C#.

4. **Astronomical Instrumentation Group (University of Lethbridge), Programmer / Research Student**
(05/2005 – 08/2005)

I was involved with writing control and analysis software to detect leafy spurge (weeds) using Fourier transform spectroscopy. I also developed G.U.I. control and input analysis software for instrument simulation for the Herschel / SPIRE instrument (European Space Agency).

5. **Shell Canada Ltd, Commercial Card Systems Programmer/Analyst**
(05/2004 – 08/2004)

I was a developer with the commercial card system at Shell. This system is responsible for all credit card, commercial and Air Miles (rewards card) transactions. My work consisted of writing and designing code for transaction processing, Air Miles loyalty program, data warehouse, reporting, and data screens.

6. **Syncrude Canada Ltd, Systems Analyst**
(09/2003 – 04/2003)

I was involved with the design, implementation and testing of several projects. The first project administered multiple choice tests to employees. The second project recorded and reported environmental health and safety issues from management. The third project automatically routed vacation advance and deferral requests through appropriate levels of management.

7. **University of Lethbridge, Undergraduate Researcher**
(04/2003 – 08/2003)

I was a summer research student. We created and implemented a FPGA co-processor to calculate a computationally intensive problem.

8. **Society for Christian Education in Southern Alberta, Systems Administrator**
(1999-2005)

I was responsible for the maintenance and installation of three schools' computer systems. My responsibilities were wide-ranging. First, I was involved with the installation and maintenance of both Linux and Windows networks. Second, I was involved with the maintenance of administration software. Third, I created an accounts-receivable database which handled deposit information, tax receipts, classroom lists, and statistical reports.

Skills

Work experience with languages: C, C++, C#, IDL, .Net framework, Oracle PL/SQL, pro*C
Experience with scripting languages: ASP.Net, FBML, HTML, JavaScript, Perl, PHP, Ruby, SQL
Experience with hardware languages: Handel-C, Verilog, VHDL
Classroom experience with languages: COBOL, Fortran, SPIM, Visual Basic
Operating Systems: FreeBSD, Linux, OpenVMS, Windows
Version Control Software: CVS, SVN
Experience with Database Engines: PostgreSQL, MySQL, SQLite

Citizenship

Canada and the United States of America

Research Projects

1. **September, 2006 – August, 2007:** iTrustPage: Pretty Good Phishing Prevention. I built a novel Firefox extension which prevents users from filling out Phishing forms on the Web. Advisor: Stefan Saroiu.
2. **May 2006 – August, 2007:** Using Network Tracing to Address Internet Phishing. I built a large-scale network tracing system to capture, reassemble, and analyze the network traffic of 10K users at U. of Toronto. This system is reassembling TCP traffic in volatile memory (RAM) at line speeds (1Gbps). This system is also analyzing and anonymizing the contents of Web traffic in volatile memory. Advisor: Stefan Saroiu.
3. **February 2006 – May 2006:** Regent: a Tool for Measuring the Behaviour of Short TCP flows on the Internet at Large. I built a tool which transfers 64KB over TCP between uncooperative DNS servers. We conducted a small measurement project on the behaviour of short TCP flows. Advisor: Stefan Saroiu.
4. **September 2005 – April 2006:** PageTailor: A Tool for Web Personalization. We created an adaptive Web browser extension which personalizes the layout of an arbitrary Website on-the-fly. An evaluation of this work appeared in the 5th International Conference on Mobile Systems, Applications, and Services (MOBISYS 2007). Advisor: Eyal de Lara.
5. **September 2005 – December 2005:** Appono: A Tool for IP Geo-Location. We built a geo-IP tool which uses Akamai servers as landmarks. Advisor: Stefan Saroiu.
6. **May, 2003 – August, 2003:** Using FPGAs to Accelerate Intensive Computation. I built an FPGA co-processor to calculate a computationally intensive problem. Advisor: Jackie Rice (University of Lethbridge).

Publications, Presentations and Posters

1. Troy Ronda, Stefan Saroiu, and Alec Wolman. iTrustPage: A User-Assisted Anti-Phishing Tool. To appear in the *Proceedings of the ACM European Conference on Computer Systems* (EuroSys 2008), Glasgow, Scotland, April 2008.
2. Nilton Bila, Troy Ronda, Iqbal Mohamed, Khai N. Truong, and Eyal de Lara. PageTailor: Reusable End-User Customization for the Mobile Web. In *Proceedings of the Fifth International Conference on Mobile Systems Applications and Services* (MobiSys 2007), San Juan, Puerto Rico, June 2007.
3. Stefan Saroiu and Troy Ronda. Protecting Users' Privacy when Tracing Network Traffic. *39th North American Network Operators' Group* (NANOG). February 2007. (Presentation).
4. Troy Ronda, Stefan Saroiu, and Alec Wolman: iTrustPage: Pretty Good Phishing Protection. *Technical Report CSRG-545*, Department of Computer Science, University of Toronto, December 2006.
5. Troy Ronda and Stefan Saroiu. iTrustPage: Pretty Good Phishing Prevention. *7th USENIX Symposium on Operating Systems Design and Implementation* (OSDI 2006). November, 2006. (W.I.P. Presentation).
6. Jacqueline Rice, Kenneth Kent, Troy Ronda and Zhao Yong. Instance-specific versus Parameter-specific Circuit Generation. In *Proceedings of Engineering of Reconfigurable Systems and Algorithms*. June 2005.
7. Jacqueline Rice, Kenneth Kent, Troy Ronda and Zhao Yong. Configurable Hardware Solutions for Computing Autocorrelation Coefficients: a Case Study. In *Proceedings of ACM/SIGDA International Symposium on Field-Programmable Gate Arrays*. February 2005. (Poster).

Awards - Graduate

1. NSERC Postgraduate Scholarship (2007) -- I declined the scholarship
2. Ontario Graduate Scholarship (2007) -- I declined the scholarship
3. NSERC Extension (2006)
4. NSERC Canada Graduate Scholarship (2005)

Awards – Undergraduate

1. Dean's Honor List (Six academic semesters in 2001-2005)
2. Canadian Association for Co-operative Education - Co-Op Student of the Year Nominee (2005)
3. 2nd Place - Alberta Collegiate Programming Competition (2004)
4. Louise McKinney Scholarship (2003)
5. Chinook Summer Research Award (2003)
6. Jason Laing Scholarship (2003)
7. George Ellis Scholarship (2002)
8. Alexander Rutherford Scholarship (2000)