ISAAC GOOD

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EDUCATION

University of Toronto, BASc, Engineers   *2005 - 2009*

Key courses: Computer Programming, Algorithms, Data Structures and Languages (A+); Communication and Design I & II (A- & A+); Operating Systems (A); Algorithms and Data Structures (A+); Introduction to Databases (A); Compilers and Interpreters (A+); Computer Systems Programming (A+); Computer Networks (A); Computer Security (A); Parallel Programming (A); Optimizing Compilers (A-)

GPA: 3.08

SKILLS

Languages	most proficient to familiar: Perl, shell scripting (bash, sh), C, C++, DB2, MySQL, sqlite, Python, Java, LaTeX	
Technical tools	awk, sed, CSV (git, svn), GNU coreutils, GNU Linux, UNIX, Makefile	
Targeted platforms	UNIX, Linux, Windows, PalmOS, Blackberry, J2ME mobile devices	
Personal skills	Strong oral and written communication; organized, detail oriented, motivated, fast to learn and adapt	

EXPERIENCE

OANDA Corporation   Apr 2012 - Jan 2013
Software Developer   *Toronto, ON*

· Created new and maintained old scripts used to report on the state of our system (Perl)
· Collaborated with other teams to improve tools they maintain
· Added functionality into large, critical system components (C++)
· Worked with project managers and indirectly clients to meet client requirements

OANDA Corporation   Jan 2012 - Mar 2012
Integrator   *Toronto, ON*

· Deployed software packages in a testing environment
· Detected and stopped bugs before software reached production machines
· Learned the software system on a broad, high level
· Interacted and collaborated with members of many other teams across

University of Toronto   Jan 2012 - Present
System Administrator (Part Time)   *Toronto, ON*

· Manage users and resources
· Maintain servers, keeping them up to date, dealing with failures, security breaches
· Install and update hardware as required

University of Toronto   Jul 2010 - Dec 2011
Graduate Student   *Toronto, ON*

· Researched botnet behaviour
· Collected data related to domains and built identifying features
· Implemented a classifier to determine if a domain is malicious using WEKA and a learning algorithm

University of Toronto
Graduate Student

Jul 2009 - Jul 2010

Toronto, ON

· Extended Forensix, a kernel module for secure system call logging
· Studied approaches for defining and detecting similar traces of system calls for pruning purposes

University of Toronto
Assistant System Administrator

Jul 2009 - Dec 2011

Toronto, ON

· Administered 130 servers
· Set up automated PXE installs
· Managed users, automation and update tasks, packages, Apache Web Server, DHCP, NFS

National Benefit Authority
Software Developer

May 2009 - Jul 2009

Toronto, ON

· Added features to an MS Access DB frontend
· Normalized the DB schema and ported data across schemas

OANDA
Software Developer

May 2008 - Aug 2008

Toronto, ON

· Created a server application (C++) and a protocol as well as a web based interface (OOP - Perl) to access it
· Added features to existing code, extending an existing Perl script
· Rewrote scripts to use a standard library, allowing easy and seamless upgrading of many scripts
· Wrote applications that reuse existing company libraries, greatly reducing development cycle time
· Learned to write object oriented Perl libraries and gained experience writing very OOP C++ code

Research In Motion
Software Developer

May 2007 - Aug 2007

Toronto, ON

· Designed a prototype and implemented a web application to access administrative settings on a server using SOAP-based HTTP communication
· Debugged existing code and tested new code, ensuring the code will work in the future and save the company time and money having to deal with broken code later on
· Distributed a new version of a tool for use by multiple teams ensuring everyone involved was using and familiarizing themselves with the latest tools
· Provided technical support to products users, freeing them up from having to spend time figuring out what they had trouble with and allowing them to spend the time productively
· Wrote user friendly instructions on use of the new application, allowing the application to enter use quicker than it otherwise would have taken
· Reported weekly on application status to two development groups, helping them keep on schedule

ACADEMIC PROJECTS

University of Toronto
Student

2005 - 2010

Toronto, ON

· Made HTTP server, UDP based file-transfer client/server, IRC-esque client/server all in C
· Created a C-like compiler using bison and flex
· Optimized gcc intermediate output files
· Implemented malloc/realloc/free in C
· Wrote parts of a multithreading OS

INDEPENDENT PROJECTS

- **pacman** Contributed patches to the Archlinux package manager, pacman, making use of the newer features of bash
- **newsbeuter** Added features as well as debugged and patched bugs in the ncurses RSS client, newsbeuter
- **irssi** Wrote several scripts to extend the ncurses IRC client, irssi, and was added as a contributed to the Stalker.pl script
- **More...** of my coding and projects are available via my website, isaacgood.com