ISAAC GOOD

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EDUCATION

University of Toronto, BASc, Engineering   *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, 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

Google Inc   Apr 2013 - Present
Site Reliability Engineer - Spanner   *Mountain View, CA*

· Responsible for availability, uptime and health of Spanner
· Part of the on call rotation to own any production issues or emergencies
· Developed and documented best practices for customer data loading
· Designed and coded (Python) various components of Spanner's change automation
· Mentoring three new Google SREs
· Own the SRE side of software release deployment and automation
· Scoped out and planned complex service change deployments
· Helped deploy various Spanner features and bug fixes

OANDA Corporation   Jan 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

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   Jul 2009 - Jul 2010
Graduate Student   *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   Jul 2009 - Dec 2011
Assistant System Administrator   *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   May 2009 - Jul 2009
Software Developer   *Toronto, ON*

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

OANDA   May 2008 - Aug 2008
Software Developer   *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   May 2007 - Aug 2007
Software Developer   *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   2005 - 2010
Student   *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 contributor to the Stalker.pl script
· **More...** of my coding and projects are available via my website, isaacgood.com