

ISAAC GOOD

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isaacgood.com

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, L^AT_EX

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

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

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 contributor to the Stalker.pl script
- **More...** of my coding and projects are available via my website, isaacgood.com