

# ISAAC GOOD

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## SKILLS

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### Languages

most proficient to familiar: Python, shell scripting (bash, sh),  
Perl, C, C++, DB2, MySQL, sqlite, L<sup>A</sup>T<sub>E</sub>X

### Technical tools

awk, sed, git, GNU coreutils, \*nix, and more

### 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

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### Machine Zone, Inc

June 2016 - Present

*Senior Site Reliability Engineer*

*Palo Alto, CA*

- Team lead, responsible for creating and enforcing SRE policies
- On call, responding to pages and maintaining production reliability of all of MZ's production systems
- Identify pain points and take lead in engineering solutions, removing the pain
- Define problems, organizing and assisting others to allow them to create solutions
- Change procedures and process based on what isn't working well and working with others to improve the status quo
- Work with Puppet, Foreman, Salt, Nginx, ELK and many more technologies

### Google, Inc

Apr 2013 - June 2016

*Site Reliability Engineer - Spanner*

*Mountain View, CA*

- Responsible for availability, uptime and health of Spanner
- Participate in the on call rotation, owning 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
- Mentored three new Google SREs
- Own the SRE side of Spanner's release deployment and automation
- Scoped out, planned and owned supporting and modifying Spanner for complex production changes
- 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 the system
- 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

Jul 2009 - Jan 2013

*System Administrator*

*Toronto, ON*

- Managed users, automation and update tasks, packages, Apache Web Server, DHCP, NFS
- Maintain 130 servers, keeping them up to date, dealing with failures, security breaches
- Install and update hardware as required. Set up automated PXE imaging.
- Assistant system admin: Jul 2009 - Dec 2011. Part time system admin: Jan 2012 - Jan 2013

## University of Toronto

*Graduate Student*

Jul 2009 - Dec 2011

*Toronto, ON*

- Researched botnet behaviour (**Jul 2010 - Dec 2011**)
- 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
- Extended Forensix, a kernel module for secure system call logging (**Jul 2009 - Jul 2010**)
- Studied approaches for defining and detecting similar traces of system calls for pruning purposes

## National Benefit Authority

*Software Developer*

Summer 2009 (May - Jul)

*Toronto, ON*

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

## OANDA

*Software Developer*

Summer 2008 (May - Aug)

*Toronto, ON*

- Created a server application (C++) and protocol plus a web based interface (Perl) to access it
- 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

## Research In Motion

*Software Developer*

Summer 2007 (May - Aug)

*Toronto, ON*

- Designed, prototyped and built a web application to access server admin settings.
- Rolled out and replaced an existing, tool with a newly and completely rewritten version.
- Documented, reported weekly and supported multiple teams throughout the rollout.

## EDUCATION

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### Google

*2013 - 2016*

Working in a fast paced environment, constantly exposed to new technologies, ideas and architectures. While I have taken a handful of classes on various topics at Google, my day to day exposure to people, projects, problems and solutions has taught me much more about technologies and designing software.

### University of Toronto, BAsC, Engineering

*2005 - 2009*

### Curiosity, Freenode and the Internet

*2004 - Present*

Most of my technical know-how comes from my curiosity to learn how to make things work. With my love for hacking together solutions and my desire to automate everything combined with the amazing online communities (especially Freenode's IRC network and the Archlinux community), I've had unbounded access to knowledge and expert guidance.

## INDEPENDENT PROJECTS

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- **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