

ISAAC GOOD

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SKILLS

Languages	most proficient to familiar: Python, shell scripting (bash, sh), Golang, Perl, C, C++, DB2, MySQL, sqlite, \LaTeX
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

Two Sigma, Inc <i>Reliability Engineer</i>	May 2020 - Present <i>New York City, NY</i>
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- Improve systems, processes, code, tooling. Build automation. Identify and eliminate pain points. Work with partners to help them benefit from SRE best practices. Collaborate across teams to deliver value across more of the firm.
- Work with partner teams to identify areas where data issues could be detected earlier and implement checks to flag issues, along with bringing a third team on board to triage flagged issues.
- Work with partner teams to generate data from their systems, then analyzed the data to provide recommendations which can be used to reduce toil and improve availability.
- Identify and rectify gaps which cause pain (toil, reduced resiliency, hard to discover information), both to my team and to our customers.
- Design, build, deploy tooling used to discover, track, test and lint configuration files.
- Implement team best practices across process, documentation, code standards, testing and more.
- Work with others to help them learn, understand and implement SRE best practices.
- Plan and execute various system and platform upgrades.
- Identify projects which have accrued tech debt over time and overhaul, refactor or rewrite tools to simplify them, improve maintainability and the ability to continue growing them, and reduce issues correlated with changes.
- Create and deliver classes to peers on various technologies.

Google, Inc <i>Site Reliability Engineer - Google Drive</i>	Jan 2019 - May 2020 <i>Sunnyvale, CA</i>
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- Responsible for availability, uptime and health of Google Drive
- Participate in the on call rotation, owning any production issues or emergencies

Google, Inc <i>Site Reliability Engineer - Google Network</i>	Nov 2016 - Dec 2018 <i>Sunnyvale, CA</i>
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- Responsible for availability, uptime and health of Google's internal network
- Participate in the on call rotation, owning any production incidents or emergencies
- Designed and coded (Python) various components of the network's upgrade automation
- Mentored Google SREs, new and old. Gave classes, provided coding guidance, conducted interviews

Google, Inc <i>Site Reliability Engineer - Spanner</i>	Apr 2013 - Jun 2016 <i>Mountain View, CA</i>
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- Responsible for availability, uptime and health of Spanner
- Developed and documented best practices for customer data loading
- 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
- Ditto to Network SRE for oncall, automation, mentoring

OANDA Corporation
Software Developer

Jan 2012 - Jan 2013
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
System Administrator

Jul 2009 - Jan 2013
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

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

- 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