
SKILLS/QUALIFICATIONS

Languages

Bash, Python, PHP, Javascript, Java, C++
HTML5, CSS3, Coldfusion, MySQL, NoSQL, PlyQL

Tools

Druid, Cassandra, Ansible, Puppet, Chef, HDFS
AWS S3, AWS Glacier, jQuery, Matlab, Arduino

Undergrad Research – Human-computer System

Interface design for collaboration in emergency responses and/or military command

Courses

Data Structures and Algorithms, Linear Systems and Signals
C++ Programming, Circuits and Instrumentation,
Probability and Statistics, Design Engineering, Hardware Design

WORK EXPERIENCE

Jan - Apr 2017

Associate Database Administrator, *Rubicon Project*

- Company-wide automated reports with **Bash** and **Python** scripting
- Built **Druid/Imply** cluster with **Python PyDruid** and **HDFS** plugins to replace MySQL reporting queries, reduced 2 *hour* query runtimes down to 4 *minutes*
- Constructed **Cassandra** cluster to store financial records to safely retain sensitive data with no single point of failure
- Enhanced **PHP** dashboard functions/display with **JQuery** and **Dashing**
- **MySQL** Database refreshes and restores from backups
- Optimized **AWS S3** space usage by 80TB

May - Sep 2016

MySQL Database Administrator, *Rubicon Project*

- Built dashboard to manage dozens of servers across multiple data centers using **PHP**, **JQuery**, **HTML** and **CSS**
- Large-scale file management and data analysis using **Bash** scripts in **Linux** environment
- Re-structured **MySQL** server CNF configuration process with **Ansible**, speeding up CNF file updates from a *few days* to *less than 10 minutes*
- Managed master-slave replication, currently running on **Tungsten**

Sep - Dec 2015

Access Control Administrator, *Toronto Transit Commission*

- Regulated the rights to networks/applications/databases for all TTC employees
- Acted as main liaison between department heads and coordinated complex tasks

Jan - May 2015

Web Developer, *Public Works & Governmental Services Canada*

- Upgraded government production web application to become twice as efficient using **HTML**, **CSS**, **Coldfusion**, **JavaScript**
- Designed and built workplace's wireless network, solved networking and hardware issues

EDUCATION/RESEARCH

Jan - May 2016

Undergraduate Research Assistantship - Human-technology interaction study

- Designed and developed simulation software for large tabular surface in **Java**

Sep - Jun 2019

Systems Design Engineering - Candidate for Bachelor of Applied Science

University of Waterloo, *Waterloo, ON, Canada*

AWARDS

2015

Queen's Venturer's Award - *Scouts-Canada*

Highest scouting award for leadership, teamwork, environmental and community contributions