PHILOS TSAI

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SUMMARY OF QUALIFICATIONS

- **Web Dev** : PHP, JQuery/Javascript, HTML5, CSS3, Coldfusion
- **Languages :** Python, Java, C++, Bash, Matlab, C#
- **Database** : MySQL, NoSQL, PlyQL, Druid, Cassandra, HDFS, AWS S3

WORK EXPERIENCE

Jan 5 - Apr 28, 2017

Associate Database Administrator, *Rubicon Project*
- Worked strictly in **Linux** and scripted in **Bash**
- 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 1 - Aug 29, 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**

Sept 8 - Dec 18, 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 5 - May 1, 2015

Web Developer, *Public Works & Governmental Services Canada*
- Upgraded government site user interface, making web application twice as efficient using **HTML, CSS, Coldfusion, JavaScript**
- Maintained multiple site functionalities across servers (patches and fixes)

EDUCATION

Jan 18 – May 1, 2016

Undergraduate Research Assistantship – Team-based touchscreen surface UI/UX
- Upgraded simulation software to be smoother and more intuitive using **Java** and **C#**

Sept 2014 – June 2019

Candidate for Bachelor of Applied Science - Systems Design Engineering
University of Waterloo, Waterloo, ON, Canada

AWARDS

2015

Scouts-Canada Queen's Venturer's Award

Highest scouting award for clear demonstration of good leadership, teamwork, responsibility, environmental awareness and community contributions