# Yang Sun

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#### **EDUCATION**

## School of Computer Science, Carnegie Mellon University (CMU), Pittsburgh

Master of Science in Very Large Information Systems, Expected December 2013

- Core Curriculum:
  - o Multimedia Database and Data Mining o Distributed Systems
  - o Studio Data Systems (Hadoop, BigTable etc.) o Machine Learning
  - Design & Engineering of Intelligent Information Systems (IBM Watson)

## University of Toronto (U of T), Toronto

Honours Bachelor of Science with High Distinction in Computer Science, June 2012

- Awards: Honours List; Summer Research Experience Award
- Leadership: VP Technology of University of Toronto China Conference

# Professional

## IBM Toronto Software Lab, Toronto, ON

Oct. 2010 - Dec. 2011

EXPERIENCE Co-op DB2 Quality Assurance Developer

- Enhanced the defect detection tool by implementing a message token comparison algorithm and "Omni-Search" extension based on grep.
- Awarded IBM Certified DB2 Academic Associate

### Caseware International Inc., Toronto, ON

May 2009 - Dec. 2009

Co-op Application Developer

- Developed the client side of a web-based ERP System by using Google Web Toolkit (GWT), GXT and JavaScript.
- Main features include draggable file explorer, text editor, file upload etc.

## **PROJECTS**

## Parallel Data Mining from System Logs using Hadoop, CMU

Fall 2012

• Proposed and implemented a data mining algorithm to discover users' usage pattern from terabytes of data by using Hadoop and MapReduce

## Parallel Graph Mining using Hadoop, CMU

Fall 2012

• Designed and developed an efficient algorithm to perform *Belief Propagation* on large graphs using Pig on Hadoop and conducted performance analysis

#### Biomedical Question Answering System, CMU

Fall 2012

 Produced a QA System that can answer biomedical questions in terms of genes based on data sources on a server running Apache Lucene and Solr. Some techniques, such as "query expansion", were used to improve the correctness.

#### SyncGallery+ (Android Cloud-based Application), U of T

Spring 2012

• Significantly reduced the complexity of editing and sharing photos among different platforms by utilizing the features of Dropbox, Aviary and Bump (https://www.sunyangkobe.com/cscd08)

#### SmartShare Carpooling Reputation System, U of T

Summer 2011

 Created a Map based carpooling reputation system by using "WAMP", Mootools, hMailServer etc. and imported SNS features, such as "friends list", into the system. (https://www.sunyangkobe.com/smartshare/)

# TECHNICAL SKILLS

Java, C, Python, Perl, SQL, Linux Shell Scripting, PHP, AJAX, JSP, GWT Github, SVN, Maven, Hadoop, Accumulo, Pig, Linux, Windows