Hongyue Zhang

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Work Experience

- **IBM Canada Ltd.**   Markham, ON
  Software QA Intern @ DB2 Relational Database   *May 2014 – Aug 2015*
  - Wrote new unit test scripts in Perls for DB2 security features
  - Enhanced regression test efficiency by 150% with existing code refactoring
  - Investigated on tracked failures within bucket of test-case, determine the type of defects through the call stack and dumped log files, deliver the test-related solutions
  - Cooperated with software developers in global team to achieve highest quality of software solutions and consolidated the knowledge of relational database
  - Supervised new interns training and helped student certification event

Engineering Project

- HealthWe - Fullstack Contractor
  - Developed prototype for sleep treatment system which capable of user authentication, file uploading and consists of both Java and Android client.
  - Supervised and directed technical team with given budget of 10000; determined the client needs to scope the features in details
  - Responsible for backend code in Nodejs, MySQL/Redis DB management, cloud server deployment and unit test in Mocha

- CaloriesCalculator - Hackathon Project
  - Developed the cloud hosted web application that can analyze ingredients from input recipe (plain text or url) and give the visual interpretation to users.
  - Exchanged the data through Nodejs backend to Alchemy cognitive API using ajax call and query ingredients calories information in external MongoDB
  - Generated a nutrient fact report with quantitative calories of ingredients (cal/100g) and a comprehensive measure of "healthiness" (color-coded)

- Concurrent key-value storage database - School Project
  - Designed a concurrent database and implement a server-client software architecture model in C
  - Added new CRUD features on each iteration and use milestones to mark development progress
  - Documented each stage of software development progress and adopt the agile methodology
  - Presented software solution to both technical and public audience

Education

- **University of Toronto, St.George Campus**   **Toronto, ON**
  The Edward S. Rogers Sr. Department of ECE , BASc   *2012 – 2017*
  - Dean's Honour List, Annual GPA 3.62
  - Related course: Algorithm & Data Structure , Object-oriented Programming, Database Fundamental

Core Technical Skills

Coding:	C, C++, Python, Perl, SQL, Bash, Java
WebStack:	HTML/CSS, Javascript, Jquery, Nodejs
Platform:	Windows, Mac OS, Linux ,Unix, AIX
VCS & IDE:	Svn, Git&github, clearcase, Eclipse, Netbeans