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WAN FONG GAN

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EDUCATION

B.A.Sc. at University of Toronto with Honours   **2010-2015**
- Graduation Date: June 2015
- Program: Engineering Science with Major in Electrical and Computer Engineering (CGPA: 3.80)
- Coursework: Algorithms and Data Structures, Computer Networks, Distributed Systems
- Awards: Dean's Honours List for 2010-2015 (Average of above 80% for all courses)

WORK EXPERIENCES

IBM, Software Developer Intern   **2013-2014**
- Developed a multi-threaded automation tool that increased efficiency for more than 40% by mitigating the process of downloading and uploading files manually
- Enhanced the functionality of the tool by adding backward compatibility to support older versions of the product which were used by more than 100 enterprise companies worldwide
- Managed a report tool that scanned through the code change summary submitted by developers to ensure they were following the business conduct and regulation
- Facilitated weekly scrum by outlining the work that had been done and milestones to be achieved to ensure the code be delivered into production on time

Mdoora Interactive, Web Developer Intern   **Summer 2012**
- Used MVC architecture to create social networking web application to produce hierarchical and modular design that improved the reusability of components by more than 30%
- Prioritize mobile-first responsive web page design by utilizing advanced CSS framework such as Blueprint and Foundation 3.0 to serve the rapidly growing community of mobile device users
- Led the work of integrating LinkedIn APIs with the project to allow users to register to the web application directly using the existing information from LinkedIn

PROJECTS

Distributed Dictionary Attack Application   **2015**
Sped up data intensive tasks by distributing sub-tasks to multiple nodes while achieving high fault tolerance using Apache Zookeeper which ensures the existence of backup servers in case of node failure

Search Engine Design Project   **2014**
Gained significant performance improvement of execution time for more than 4 times by implementing multi-threaded backend crawler and optimizing the structure of databases

Online Store Web Application   **2014**
Designed secure login system by adding Captcha validation and password hashing to protect users' confidential information from hackers

Android Kernel Enhancement   **2013**
Improved the runtime of the processes with heavier tasks to less than 50% of the original time by implementing weighted round-robin scheduler that gave priority to heavier processes

Group Chat System   **2013**
Utilized centralized server to manage concurrent threads to ensure less than 0.01% of information loss during server-client communication

SKILLS

- Programming: Java(Proficient), Python, C, C++
- Web Programming: PHP, JSP, Javascript (AJAX, JQuery, JSON), HTML, CSS, MySQL
- Tools: SVN, Git, Amazon Web Services (EC2), WebSphere Application Server
- Platforms: More than 3 years of experience of developing software in Linux and Windows