

# Ryan Wang

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System Engineer, Software Developer, Solution Consultant

## Summary

An innovative thinker professional with software engineering. Offering more than 6 yrs of working experience in the full software development lifecycle - from concept through delivery of applications and solutions. Experience in design, analysis, implementation, and architecture, my goal is to create advanced and responsive applications. Willing to take ownership of core components.

## Skills & Endorsements

**Programming Languages:** Python, C, Java, C++, JavaScript, HTML5, Go, Ruby, SQL, NoSQL, Racket, Prolog, Clojure, C#, Swift.

**Database:** MongoDB, MySQL, PostgreSQL, Redis, Memcached, HBase,

**Platform & Tools:** RAD & Websphere, Eclipse & IntelliJ IDEA, AngularJS & Bootstrap, Android&IOS, Hadoop, Git, Vim, Elasticsearch & ELK, Atlassian Bamboo, Openshift & Docker, Maven & Spring-boot, Google Cloud Platform & AWS, Tornado, Django, Flask, Google Map, Nginx, Qt, Android Studio, Xcode, Visual Studio, OpenCV, LaTeX, Tensor Flow, Ruby on Rails.

**Industry Knowledge:** Software Development, Server Architecture, Web/Mobile Applications, Search Engine, Security Assurance, Agile Project Management, Performance and scalability optimization, Machine Learning, Computer Vision, Algorithms, Continuous Integration, Database design, Data warehousing and analytics.

## Experience

### Senior Developer Specialist (Contractor)

Dates

2018.8 – current

[BMO](#) | Toronto

Enhance BMO Online Banking logs, security issues, integrate correlation ID to downstream services. As BMO is integrating Online Banking platform logs with ELK (Elasticsearch Logstash Kibana), then logs can be seen in a nice format for troubleshooting and create dashboard for STO, Directors to view.

### Software Developer

Dates 2018.6 –

current

[dawn infotek inc](#) | Toronto

Built ELK platform, designed and created Kibana dashboard, developed frontend (AngularJs 6), analyzed BMO logs, the platform helps other team members to practise troubleshooting skills.

### Software Developer

Dates 2017.9 –

2018.6

[T24 defence](#) | Ottawa

Participated in message transfer through T24 device to monitor, including sensors (track24, whisper, T24 pocket) and satellite (iridium), then information can pass from device through satellite to management platform. Built automated front end testing, implemented simulator for other team to deploy fraudless applications.

## Server Development Engineer

Dates 2015.7

– 2015.9

### Shou | Beijing

Enhanced and improved company product - ShouTV. Archived mobile banking payment process with google pay and apple pay, and optimized programming logic, designed Database structure and REST APIs for client-side (IOS, Android).

## Server Development Engineer

Dates 2013.10

– 2015.3

### Adesk | Beijing

Built and maintained backend services for company product - android wallpaper. Designed and developed REST API (With python + tornado + MongoDB + Redis + Memcached) for client-side's request (IOS, Android), leveraged efficient search engine functionalities (using elasticsearch). As a member of data analysis team, I initialized Hadoop for big data storage and built analysis programs for the department of commercial market, managed cluster storage and servers status (Nagios).

Leading project: Android-ringing: android ringing application functioning as a mobile ringing service to android users. As the leader of the project, my role was to lead our small team to build the server side of the project including backend (with python + tornado) and frontend (html5 + bootstrap CSS + js).

## Software Engineer

Dates 2012.1 –

2013.6

### TRS | Beijing

Developed and maintained search engine, web spider, proxy servers. Responsible for distributed heavy tasks, tools for certified users, batch task generating program, multi-threaded web server & associated tools.

In panda project (government project): provided government private web spider and search engine.

## Technical Service Engineer

Dates 2011.5

– 2012.1

### Tsinghua Tongfang | Beijing

Troubleshooting for PC users: handled software installation and configuration, built script for cluster servers;

Windows System Configuration: built Exchange 2010, Lync, SCCM, CRM;

Linux System Configuration: built KVM, XEN, LAMP, postfix, BIND, DHCP, etc.

## Education

Bachelor's Degree, Computer Science, Carleton University, Canada

2015-2017

Computer Science, University of Ottawa

2016

Bachelor's Degree, Telecommunications Engineering, Hunan University of Arts and Science, China

2007-2011

## Certifications

MCITP Microsoft, License D238-2597

Apr,2011

CCNA Cisco, License CSCO 11809486

Jul,2013