

# XING WU

## SUMMARY

- 10 years programming experience (3 years in industry).
- Clear perspectives for architecture design as a full-stack developer.
- Great enthusiasm for exploring and designing new technologies.
- A strong faith that machine learning/artificial intelligence will lead another industrial revolution.
- An overwhelming passion for contribution in open source communities.

## WORK EXPERIENCE

AUGUST 2014 – DECEMBER 2014  
**Ericsson** Ottawa, Canada  
*Research Intern*

1. Designed the architecture of a big data analytics platform as a future substitute for the internal analytics tool based on a traditional relational database.
2. Built a prototype of the platform from scratch, including data ETL with Flume, data analysis with Hadoop/Hive, real-time processing with Spark Streaming, and a real-time web dashboard using Node.js/Socket.io.

JULY 2010 – JUNE 2013  
**Tencent Inc.** Shenzhen, China  
*China's largest and most used Internet service portal  
Software Engineer*

1. Designer and developer of an application recommendation system for Qzone (the largest social network in China), which increased the click-through rate by 170%.
2. Server-side programmer developing SNS games, web services, web pages using C++, serving over 600 million users, processing 50,000 requests per second.

## RESEARCH EXPERIENCE

SEPTEMBER 2013 – PRESENT  
**Concordia University** Montreal, Canada  
*Research Assistant*

1. Designed the architecture of a distributed stream processing platform that supports dynamic load balancing and auto-scaling. Implemented the idea on Apache S4, a open-source stream processing engine first developed by Yahoo.
2. Built a movie recommendation application to evaluate the cost and performance of both Hadoop and S4 on processing continuous and incremental updated data streams.

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## SKILLS

- Solid programming skills in **C/C++, Java, JavaScript**
- Expertise in Linux network programming, **web development**
- Strong knowledge in distributed system, stream processing, **machine learning**
- **Language:** Fluent English, Native Chinese.

## EDUCATION

2015	<b>Master's Degree</b> [GPA: 3.93/4.30]
2013	Software Architecture in Cloud Computing <i>Concordia University, Canada</i>
2010	<b>Master's degree</b>
2008	COMPUTER SOFTWARE ENGINEERING <i>Wuhan University, China</i>
2008	<b>Bachelor's degree</b>
2004	COMPUTER SCIENCE <i>Wuhan University, China</i>

## AWARDS

2014	<b>Partial Tuition Scholarship</b>
2013	<i>Concordia University</i>
2011	<b>Excellent Employee</b> (Top 3%) <i>Tencent Inc.</i>
2009	<b>First Prize Graduate Scholarship</b>
2008	<b>Second Prize Graduate Scholarship</b> <i>Wuhan University</i>

## PUBLICATIONS

- Wu, Xing, and Yan Liu. "Enabling A Load Adaptive Distributed Stream Processing Platform on Synchronized Clusters." In *Cloud Engineering (IC2E), 2014 IEEE International Conference on*, pp. 627-630. IEEE, 2014.
- Wu, Xing, and Yan Liu. "Optimization of Load Adaptive Distributed Stream Processing Services." In *Services Computing (SCC), 2014 IEEE International Conference on*, pp. 504-511. IEEE, 2014.