Xing Wu

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Summary

- 10-year programming experience (3.5 years in industry).
- Clear perspectives for architecture design as a full-stack developer.
- Perpetual enthusiasm to explore and design new technologies.
- A strong faith that machine learning/artificial intelligence will lead another industrial revolution.
- A profound passion to contribute 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. Designed and developed an application recommendation system for Qzone (the largest social network in China), which increased the click-through rate by 170%.

2. Developed SNS games, web services, web pages as a server-side programmer 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 an architecture for distributed stream processing platforms to support dynamic load balancing and auto-scaling, improved the throughput of Apache S4 on a 10-node cluster by 87.73% in the experiment.

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.

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 2013	**Master's Degree** [GPA: 3.93/4.30] Software Architecture in Cloud Computing *Concordia University, Canada*
2010 2008	**Master's degree** Computer Software Engineering *Wuhan University, China*
2008 2004	**Bachelor's degree** Computer Science *Wuhan University, China*

Awards

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

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.