Kun **Xie**

SENIOR SOFTWARE ENGINEER

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"Live with passion!"

Professional Summary ──────────────────────

✓ 10 years working experience in Linux and Windows network programming in C, C++ and Java.
✓ 7 years engineering experience on distributed system design and development.
✓ 5 years' experience and deep understanding of architecture design/optimization. Key contributor for a web infrastructure with 2-billion hits per day, with strong skills in distributed network server architecture design/profile/optimization.
✓ Ability to work well independently as well as within a team.
✓ Highly motivated, energetic, well organized, disciplined and like being challenged.
✓ Team player with high empathy and good social skills.

Education ──────────────────────

UQAC (Université du Québec à Chicoutimi)   *Chicoutimi, Québec, Canada*
M.S. IN COMPUTER SCIENCE   *Jan. 2014 - Aug. 2016*

NKU (Nankai University)   *Tianjin, China*
B.S. IN SOFTWARE ENGINEERING   *Sep. 2000 - Jul. 2004*

Experience ──────────────────────

UQAC (Université du Québec à Chicoutimi)   *Chicoutimi, Québec, Canada*
RESEARCH ASSISTANT & TEACHING ASSISTANT (PROF. SYLVAIN HALLÉ)   *Aug. 2014 - PRESENT*
• Designed algorithms to evaluate LTL formulæs by manipulating Bitmaps and implemented them with Java.
• Implemented a one-way communication channel with optical codes.
• Developed a software suite to import and synchronize a geoname database for a research project with the engineers from TLM.
• Took part in writing two papers for publication.
• Evaluated homework and tests of the students.

Lenovo   *Beijing, China*
ADVISORY RESEARCHER   *Aug. 2010 - Jan. 2014*
• Designed and implemented a distributed storage system supporting scalability, load-balancing, fail-over, cross-datacenter replication, log collection and analysis. Key customers included government, banks, and financial and assurance companies.
• Built technology road map and strategic direction for the product.
• Led a team of 10 engineers and established a Scrum project management process.
• Developed with C, C++, Go lang, PHP, Thrift, ProcotolBuffer, etc.

Oak Pacific Interactive   *Beijing, China*
SENIOR SOFTWARE ENGINEER   *Jul. 2009 - Aug. 2010*
• Developed a vertical search engine of the SNS website `http://renren.com`, including distributed indexing, distributed searching, ranking system (weighted ranking and two dimensions ranking).
• Managed a server cluster across 60+ servers to run our search engine which processed over 40 million requests per day.
• Led a team of 5 engineers.
• Developed with C++, Java and the RPC framework Zeroc ICE.

Width Technologies   *Beijing, China*

TECHNICAL DIRECTOR & CO-FOUNDER   *Apr. 2007 - Jul. 2009*

- Held responsibility for the strategic direction and leadership of the enterprise architecture.
- Led a team of 7 engineers to design and implement an Internet storage website (like MegaUpload) which served 1 million visitors per day and 4 terabytes traffic (upload & download) per day.
- Developed a HTTP server optimized for data uploading, downloading and traffic control.
- Managed all servers in multiple data centers with different Internet service provider.

Kuxun Technologies   *Beijing, China*

SENIOR SOFTWARE ENGINEER   *Jul. 2006 - Apr. 2007*

- Developed a cache server as a front-end for a cluster of search engine. The cache server is applicable to cache the static content, fetch, merge and cache the searching results. The cache cluster served a load of 2 million visits in the peak hour.
- Developed a classic inverted-index searching engine, each of which could support 300 requests per second.

AscentVision   *Tianjin, China*

SOFTWARE ENGINEER   *Nov. 2004, - Jul. 2006*

- Developed Linux kernel modules to identify various application-layer network protocols (MSN, torrent, emule, Skype, etc) to control their traffic.
- Developed Linux kernel modules to provide a network tunnel supporting real-time data compression.

Awards

2016	**Scholarship**, For the assistance of research and teaching	*UQAC*
2015	**Scholarship**, For the assistance of research	*UQAC*
2014	**Scholarship**, For the assistance of research	*UQAC*

Publication

Offline Evaluation of LTL Formulæ with Bitmap Manipulations   *16th International Conference on Runtime Verification*

FIRST AUTHOR   *Apr. 23, 2016 (under review)*

Real-Time Streaming Communication With Optical Codes   *IEEE Access*

FIRST AUTHOR   *Jan. 4, 2016*

Skills

Software Design: Strong experience in software system implementation with C, C++, Java, Go Lang, Python.

Distributed computing: Familiar with Hadoop, Hive, Linux Container Group, Docker.

Virtualization: Familiar with Xen, XenServer, CloudStack.

Web: Familiar with both front-end and back-end design, PHP, JavaScript(JQuery), and also PHP module (in C).

Database: Hands-on experience in MySQL database structure design/profile/optimization, loadbalancing and caching optimization for Internet websites.

Languages: Fluent in Mandarin, English, French.

Interests

Programming, Reading, TV Games, Music, Football, Swimming.