

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, well organized and disciplined.
- ✓ Highly energetic and like being challenged.
- ✓ Team player with high empathy and good social skills.

Education

UQAC (Université du Québec à Chicoutimi)

M.S. IN COMPUTER SCIENCE

Chicoutimi, Québec, Canada

Jan. 2014 - Aug. 2016

NKU (Nankai University)

B.S. IN SOFTWARE ENGINEERING

Tianjin, China

Sep. 2000 - Jul. 2004

Experience

UQAC (Université du Québec à Chicoutimi)

RESEARCH ASSISTANT & TEACHING ASSISTANT (PROF. SYLVAIN HALLÉ)

Chicoutimi, Québec, Canada

Aug. 2014 - PRESENT

- Designed a set of algorithms to evaluate LTL formulæ 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

ADVISORY RESEARCHER

Beijing, China

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 include 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, ProtocolBuffer, etc.

Oak Pacific Interactive

SENIOR SOFTWARE ENGINEER

Beijing, China

Jul. 2009 - Aug. 2010

- Developed the vertical search engine of the SNS website <http://renren.com>, including distributed indexing, distributed searching, ranking system (weighted ranking and 2 dimensions ranking).
- Run the engine on a server cluster across 60+ servers, and the engine had to process over 40 million requests per day.
- Led a team of 5 engineers.
- Developed with C++, Java and the RPC framework Zeroc ICE.

Width Technologies

TECHNICAL DIRECTOR & CO-FOUNDER

Beijing, China

Apr. 2007 - Jul. 2009

- 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.

Kuxun Technologies

SENIOR SOFTWARE ENGINEER

Beijing, China

Jul. 2006 - Apr. 2007

- Developed a load-balancing cache server (like haproxy), used for caching the static content, fetching, merging and caching 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

SOFTWARE ENGINEER

Tianjin, China

Nov. 2004, - Jul. 2006

- Analyzed various application layer network protocols (MSN, torrent, emule, Skype, etc) and developed the Linux kernel modules to identify and control the traffic of them.
- Developed the Linux kernel modules, used for a network tunnel supporting real-time data compression.
- Developed the Linux kernel modules to control the flow of the applications.

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 Formulae 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++ with STL and Boost, also including 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.

Software development methodologies: Familiar with Agile, Scrum and UML.

Languages: Fluent in Mandarin, English, French.

Interests

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