ZHIZHEN FAN

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SUMMARY:

Passionate and proactive programmer looking for a full-time developer position, with solid foundation in data structures, algorithms, design patterns and software design.

SKILLS:

- Expert knowledge of developing and debugging C/C++
- Expert knowledge of TCP/IP and Networking Fundamentals
- Extensive experience in Multi-Threaded and Multi-Process programming
- Rich experience with MYSQL and Berkley DB Database
- Rich experience with library STL, Boost, QT, ATL
- Rich experience in developing Backend Server Applications
- Rich experience in System Performance Optimization and Trouble-Shooting
- Good knowledge of HTTP, HTML, JavaScript, CSS, SOAP
- Experience with **Distributed System** design and implementation
- Experience with Linux Kernel Hacking
- Experience with SQL, Java, Shell-Script
- Hands-on experience with GCC, GDB, XCode, VIM, GIT, Tcpdump, Valgrind
- Excellent Linux/UNIX skills

EDUCATION:

Temple University, Philadelphia, PA, USA M.S. in Computer Science, Jan 2014

Northwestern Polytechnical University, Xi'an, Shaanxi, China B.E. in Software Engineering, July 2004

EXPERIENCE:

SevOne Inc., Delaware, U.S.A System Programmer Intern, May 2013 – August 2013

Renren Inc., Beijing, China Staff Engineer, October 2011 – August 2012

StreamOcean Inc., Beijing, China Staff Engineer, May 2009 - October 2011

Other software companies in Beijing, China Software Engineer, July 2004 - May 2009

PROJECTS:

P2PHDFS-Peer to Peer Hadoop Distributed File System, 2013, Temple University

P2PHDFS is a fully distributed Statistic Multiplexed Computing architecture implementation for the existing Hadoop File System (HDFS) to eliminate single point

failures and to obtain higher performance and reliability.

- Involved in protocols and modules design.
- Wrote Java applications to implement the tuple message-passing infrastructure.

StreamSense-Server Driven Adaptive Streaming, 2011, StreamOcean Inc.

StreamSense is a server application providing Server Side HTTP Smooth Streaming.

- Built a mathematical model estimating the traffic of TCP connections.
- Wrote algorithms in C to detect network congestion and proactively feed the bestbitrate stream to the client, with no network overhead.

CCG-Cluster Content Gateway, 2011, StreamOcean Inc.

CCG is a layer-7 load-balancer supporting content-aware scheduling.

- Performed core system design using Netfilter and Libipq supporting 400,000 concurrent users.
- Wrote kernel module in C to transfer TCP connections, manage sessions and perform session load balance scheduling.
- Wrote applications in C++ to perform content management.

AWARDS:

- Best employee of the year, 2011, StreamOcean Inc.
- First-class integrated scholarship, 2001, Northwestern Polytechnical University
- Second-class integrated scholarship, 2002, Northwestern Polytechnical University