Yu Qing

Senior C++ Developer

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Profile

5 years of C++ application development experience.
Good at Linux platform server application development and optimization, and with a development experience in large backend software projects.

Skills

- Linux Platform Based Development
  Familiar with Unix system programing. Coding with POSIX API, boost and C++11. Experienced at server side software development and optimization, such as coping with CPU cache, memory fragmentation, swapping and caching management, async IO and heavy network concurrent load, etc.
  Project building system configuration and maintenance such as GNU Makefile, CMake and Maven. Familiar with Linux administration, distributed software system deployment, bash and well known dynamic languages scripting, and automatic build&test system(such as Jenkins) configuration, etc.

- Network
  Familiar with application layer protocols such as HTTP, well known RPC protocols. Know mostly used load balance methods.
  Socket programming, in which can implement event loop with technologies such as epoll. Use tools like wireshark to analyze network packets and datagram. Once implemented an UDP stack and DHCP client on top of it on embedded system in college.
  System deployment and maintenance experiences such as iptables configuration, port mapping and cloud virtual host deployment.

- Big Data
  Know technologies in hadoop ecosystem. Quite familiar with HDFS.

- Database, Web and GUI application
  Well known relational database usage. Experience of developing JDBC driver.
  Ability of developing dynamic websites alone, which involves various backend and frontend technologies and frameworks.
  Have rich experience of desktop GUI application development. Familiar with small scale local storage solutions such as Sqlite.

Development Tools

1. C++(proficient), Java
2. Ruby, Python, node.js, shell script
3. CSS/JavaScript/HTML
4. SVN/GIT
5. CMake, vim, netbeans
6. Arch Linux

English Language

CET6 in college.
Capable of reading and writing technical documents and manuals, daily mails and presentations.
Good at oral English.

Job Experience

BONC, Beijing : Software Engineer Since 2013
During this period is engaged in a distributed analytical column store database system, which use HDFS from apache hadoop as the storage service to implement structured big amount of data's storage and SQL query.
My tasks involve: HDFS investigation and modification; system main process's memory pool, thread pool and such low level resource management modules; distributed primitives such as distributed lock implemented by zookeeper; hash join implementation of big tables which can not be fully loaded to RAM; JDBC driver development and partially maintenance of J2EE client. Besides of those, I also did some peripheral jobs such as project's building system, deploy/debug tools and bug locating/log analysis tools.

Neusoft, Shenyang : Software Engineer 2010-2013
During this period I was mostly engaged in windows desktop C++ application development, which involved: self-implemented event-loop and widget painting without any standard or customized widgets to satisfy client's various highly customized interface requirements; familiar with Japan's EPG(Electronic Program Guide) specification, and implemented a high performance EPG stream parser; implemented device broadcast/discovery in LAN based on UPnP protocol and etc.
In the spare time I developed several small web applications, which employ frameworks such as J2EE, Ruby on Rails and node.js(Express.js). From frontend technologies such as js template and browser compatibility, to backend technologies like servlet framework and nginx/apache configuration and load balance, all are involved.
I also build up sufficient knowledge of linux system administration, small scale linux desktop application development with POSIX and boost during this period.

Education

Shandong University of Science and Technology : B.S., Network Engineering 2006-2010