

Jialei Cui

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<http://jialeicui.github.io>

<http://github.com/jialeicui>

WORK EXPERIENCE

SINA.com, Senior Software Engineer

Oct. 2013 – Present

- Develop high-performance authority DNS server software for all SINA and WEIBO domains
- Develop DNS query system over HTTP based on nginx
- Keywords: C/C++, gdb, nginx

Beijing, China

H3C Technologies Co., Limited, Switch Driver Developer

Aug. 2011 – Oct. 2013

- Develop driver for Marvell and Broadcom switch chips under Linux kernel
- Mac address syncing, packet parsing and other algorithms tuning
- Keywords: C, layer 2 protocol, MIPS

Beijing, China

Beijing Dafeng Software, Software Engineer

July 2009 – Aug. 2010

- Develop simulation software for power plant under Windows
- Keywords: C++, visual studio

Beijing, China

PROJECT EXPERIENCE

DNS Cache

- Based on Intel DPDK, written in C++, manage NIC in user space
- Up to 500k req/sec. (12 cores * 2.0G Hz, 16GB memory)
- Support two ip regions

HTTP DNS Server

- Nginx module written in C
- Up to 170k req/sec. (12 cores * 2.0G Hz, 8GB memory)

H3C MSR 26 36 56 Router

- In charge of several layer 2 features: packet forwarding, MAC address management and ACL
- Debugging with kdb and gdb

EDUCATION

College of Information Engineering, Communication University of China
Bachelor of Science

June 2009

Beijing, China

PROFESSIONAL SKILLS

- Experienced in C/C++, data structure and design patterns
- Familiar with Linux multi-thread and multi-process develop model
- Familiar with PHP and CodeIgniter framework
- Familiar with Python
- Use shell, go, git, svn