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EDUCATION

Texas A&M University (TAMU)   **College Station, USA**   **Aug. 2012 – May 2014**
- Master of Science, Computer Science, **GPA: 4.0/4.0**
- Key Courses: Networks, Operating Systems, Security, Information Retrieval, Algorithms, AI Robotics

Beijing Normal University (BNU)   **Beijing, China**   **Sep. 2008 – Jul. 2012**
- Bachelor of Science (with honors), Computer Science

ACADEMIC EXPERIENCE

Internet Research Lab   **Texas A&M University**   **Jan. 2013 – Present**
Research Member
- Developed a network driver, sending/receiving at wire rate on 1 Gigabit adapter for any packet size.
- Developing a driver for Intel 82598EB 10 Gigabit adapter on Windows. Indirectly mapped NIC registers to user space, currently sending at 9.3 Gbps for smallest packet size.

Video Information Processing Lab   **Peking University**   **Jan. 2011 – Dec. 2012**
Research Assistant
- Proposed algorithms for super resolution and image denoising, comparable with the state of the art.
- Published 3 international conference papers (including ICASSP and ICIP) and obtained 2 patents.

ACM International Collegiate Programming Contest Team   **Beijing Normal University**   **Apr. 2009 – Jul. 2012**
Team Member
- Competed to solve programming tasks by using advanced algorithms and data structures.
- Gave algorithms lectures to students from various departments.

TECHNICAL EXPERIENCE

Projects
- **Network driver for Windows** (2013). Designed and implemented a network driver, bypassing overlying driver stack by sharing a circular buffer with user application. The driver can coexist with default network stack and achieve wire speed on 1 Gigabit adapter with low CPU usage. Used Microsoft NDIS API.
- **UNIX-style OS kernel** (2013). Implemented an OS kernel with multi-level page table for virtual memory management, FIFO thread scheduler, and simplified UNIX file system. Programmed in C.
- **DNS resolver** (2012). Implemented a high performance DNS resolver with custom hash table and efficient cache, performing recursive and iterative DNS lookup. The recursive lookup is 10 times faster than *gethostbyname* function. Used Winsock and I/O Completion Port API.

Languages and Technologies
- **Proficient**: C++, C **Prior Experience**: Python, PHP, jQuery, Matlab, CSS, LaTeX
- Microsoft Visual Studio, Amazon EC2, Xperf, Git

AWARDS

- Championship of Microsoft Coding Challenge at Texas A&M University, 2014
- Four times silver medals in ACM-ICPC Asian regional contests, 2010 & 2011
- Google Excellence Scholarship, 2011
- First Prize University Scholarship, 2011