

QIYUAN QIU

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OBJECTIVE

Seeking internship position in Computer Science with emphasis on distributed and parallel computing.

EDUCATION

University of Rochester

present

PhD candidate in Computer Science

University of Minnesota, Twin Cities

June 2013

B.E. in Electrical Engineering & Computer Science

EXPERIENCE

Research Assistant - University of Rochester

October 2013 - Present

- Design and implement message layer for parallel genome reconstruction algorithm.
- Profile MPI program.
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Developer - Minnesota Supercomputing Institute

March 2012 - June 2012

- Revised and implemented a newly invented algorithm on GPU platform.
- Implemented parallel version code on multi-core CPU leveraging OpenMP and Pthread.
- Offered novel solution to experiment design.
- Led to a conference publication in the 24th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD).

Firmware Engineer - Seagate Technology

June 2012 - Sep 2012

- Debugged hard drive firmware source code over 1.8 million lines with the help of Coverity in multiple subsystems.
- Processed massive data leveraging Google script language.
- Collaborated with engineers remotely to resolve Coverity issues.
- Offered detailed descriptions and possible solutions to defects in hard drive firmware source code.
- Provided critical advice to help design an efficient algorithm resulting in the speed up web application.

PUBLICATION

J. Hu, Z. Wang, Q. Qiu, W. Xiao, and D. Lilja, *Sparse Fast Fourier Transform on GPUs and Multi-core CPUs*, the 24th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD), Oct. 24- 26, 2012.

AWARD & HONOR

International Collegiate Programming Regional Contest, 3rd out of 239

Nov, 2012

International Collegiate Programming Regional Contest, 5th out of 215

Nov, 2011

Scholarship of Beijing Jiaotong University, Creation Scholarship (1%)

Sep, 2010

Beijing Physics Experiment Design Contest, Gold Medal (1%)

Sep, 2010

TECHNICAL STRENGTHS

Computer Languages

C/C++, Python, Lisp, JavaScript, Java

Operating Systems

Linux, Windows