Luming Zhang

M.S. in Computer Sciences, luming@cs.wisc.edu

Excellent programming, algorithm intuition and skills. Fast learning ability Strength:

and solving problem independently.

Code Samples https://github.com/luming89/CodeSamples

EDUCATION

Sep. 2013 - Dec. 2015 University of Wisconsin - Madison, Madison, WI, U.S.A.

M.S. Computer Sciences - College of Letters & Science, Department of Computer Sciences

- GPA: 3.6/4.0

Xi'an Jiaotong University, Xi'an, Shaanxi, China Sep. 2008 - July 2012 B.S. Microelectronics - School of Electronic and Information Engineering

SKILLS (Self Ranking: ***strong, **good, *familiar)

C++ (CUDA)***, Java***, C***, C#**, Python**, JavaScript*, PHP* Languages

Unix/Linux**, MySQL** OS & Database

PROFESSIONAL EXPERIENCES

Software Development & Engineer at Amazon.com, Seattle, WA

Feb. 2016 - present

Took over an unfinished project which will enable the platform to retry the charge to reduce bad debt. The project was completed and launched successfully.

Software Development & Engineering Intern at Amazon.com, Seattle, WA May 2015 - Aug.2015

Developed a local configuration verifier which speeds up the original verification process by 1000x. Using Google Guice to inject dependency, Mockito to mock out unnecessary components and Jersey to make it a service.

Project Assistant in the Department of Engineering Physics,

Jan. 2014 - June 2014

Fixing bugs and exploiting parallelism of the Plasma Simulation Code which is recently rewritten with C(CUDA)

COURSE PROJECT

Computer Graphics *OpenGL & C++, Demo:* https://www.luminghub.com F. 2014 & F. 2015

- Improved a game engine and built a 3D Air Battle Game.
- Implemented SIMBICON walking controller using Open Dynamics Engine.

Database Systems

A Buffer Manager, A File Manager, using C++ Fall 2014

- The buffer manager uses the Clock Algorithm to manage the buffer pool.
- The file manager supports all common operations and B+ tree indexing.

CSX Compiler in Java & Passes of LLVM Compiler in C++ Compiler S. &F. 2014

- Built a front-end CSX compiler which consists of a token scanner, a parser, a name analyzer, a type checker and a code generator.
- Implemented a back-end LLVM optimizer which performs peephole, live variable, loop invariant analysis and register allocation.

Computer Architecture RISC Processor & GPU Warp Scheduler in C++ Fall 2013 & Spring 2015

- 5-stage pipelined RISC processor which contains 16 instructions and a local branch predictor.
- Implemented a Criticality-Aware Warp Scheduler to replace naive ones like round robin, which is unable to hide latencies properly for many applications because of execution time disparity.

Operating Systems XV6 operating system and programming using C Fall 2013

Implemented a shell, system calls, a process scheduler, virtual memory features, and a multi-threaded web server.

HONORS

2010 National Scholarship, top 5%