1210 W. Dayton St. Madison, WI 53706 USA +1 (608) 886-2699zuvu@cs.wisc.edu

EDUCATION

Ph.D. Student, Database Systems

2012-present

M.S., Computer Sciences

2012-2013

University of Wisconsin-Madison, Madison, WI, USA

M.Eng., Computer Systems Organization

2010-2012

Harbin Engineering University (HEU), Harbin, China

B.E., Computer Science and Technology

2006-2010

Harbin Institute of Technology (HIT), Harbin, China

TECHNICAL **SKILLS**

Prog. Lang.: C/C++, BASH scripts, and X86 AT&T Assembly. Tools: LLVM, SimSoC, DynInst, LATEX, GIT, and SVN.

EXPERIENCE

Teaching Assistant for Computer Network, UW-Madison Jan 2014-present

• Grading projects using Mininet, an emulator for Software-Defined Networks.

Selected Course Projects, UW-Madison

Sep 2012-Dec 2013

- Advanced Operating Systems: Measured performance of Linux virtual memory system, and benchmarked a user-level direct access filesystem for simulated Storage-Class Memory (SCM) using PostMark mail-server workloads.
- Distributed Systems: Implemented client and server prototypes for a distributed replicated filesystem using Two-Phase Commit protocol (2PC).
- Principles of Programming Languages: Applied beta reduction in the De Bruijn notation, implemented Algorithm W for type inference, and performed binding-time and function annotation analyses in OCaml.

LLVM Back-end Porting for C*Core Architecture, HEU Sep 2011-Jul 2012

- Devised DAG lowering operations and transformations from LLVM IR.
- Designed instruction selection patterns for 70 instructions and optimization passes.

Research Internship, INRIA-Tsinghua, Beijing

Nov 2010-May 2011

- Proposed a compiler-assisted approach to speedup the SimSoC simulator using LLVM Just-In-Time (JIT) engine.
- Exploited a macro-block-based Dynamic Binary Translation (DBT) technique.
- Accelerated 35% in average, and achieved 95 MIPS with peeks at 125 MIPS.

SCHOLARSHIPS 1st Class Graduate Scholarship, HEU, twice

2010-2012

 3^{rd} Class Scholarship, HIT, twice

2007-2009

EXTRA-CURRICULARS President, IBM Technology Club, HIT

President, ACM Student Chapter, UW-Madison

2013-present 2009-2010

INTERESTS Sailing, skiing, and clarinet.