Zuyu (Anthony) Zhang

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EDUCATION

Ph.D. Candidate, Database Systems 2012-2017 (Expected)
University of Wisconsin-Madison, Madison, WI, USA
Advisor: **Prof. Jignesh Patel**
Thesis topic: Towards high perf., cloud-based distributed analytical query processing.

M.Eng., Computer Systems Organization 2010-2012
Harbin Engineering University (HEU), Harbin, China
Thesis: LLVM Back-end Porting for C*Core Architecture.

B.Eng., Computer Science and Technology 2006-2010
Harbin Institute of Technology (HIT), Harbin, China

TECHNICAL SKILLS

Prog. Lang.: C/C++, BASH scripting, and X86 assembly.
Tools: LLVM, gFlags, gLog, gTest, CMake, Bazel, Protobuf, gRPC, GIT, and LaTeX.

EXPERIENCE

Software Engineering Intern, Google Oct-Dec 2016
- Working on multi-tenant, interactive reporting service in C++.

Software Engineering Intern, Twitter Jul-Sep 2016
- Exploited streaming query execution on Twitter Heron.

Software Engineering Intern, Pivotal Jun 2015-Jul 2016
- Research and develop distributed analytical SQL query processing techniques.

Core Team Member, Quickstep Technolgoies Jan-Jun 2015
- Spinoff from the **Quickstep** project at UW-Madison, and acquired by Pivotal.

Software Engineering Intern, Twitter May-Aug 2014
- Prototyped Twitter Heron Scheduler on Apache Mesos with automatic failover.
- Demonstrated the scheduler running on a Mesos cluster of 150 nodes.

LLVM Back-end Porting for C*Core Architecture, HEU Sep 2011-Jul 2012
- Devised DAG lowering operations and transformations from LLVM IR.
- Designed selection patterns for 70 insns (totally 100) 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.

EXTRA-CURRICULARS

President, ACM Student Chapter, UW-Madison 2013-2015
Active Member, Hoofer Sailing Club, UW-Madison Aug 2013-present

INTERESTS

Sailing, clarinet, and travel (6 countries).