

Zichen Zhu

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EDUCATION

Hong Kong University

Sep 2017 – Present

- MPhil in Database group, Computer Science
- Research Interest: Database, Heterogeneous Information Network and Graph Algorithms
- *Advisor: Prof. Reynold Cheng*, Associate Professor of Computer Science at the University of Hong Kong

Tsinghua University

Sep 2013 – July 2017

- Bachelor of Software Engineering
- Core Courses: System Analysis and Control (100,1/68), Cloud Database Management (99, 1/15), Network System (92, 4/31)

EXPERIENCE

Data System Laboratory, SEAS, Harvard University, U.S.

June 2016 – Oct 2016 & July 2018 – Present

Advisor: Prof. Stratos Idreos, Assistant Professor of Computer Science at the Harvard John A. Paulson School of Engineering and Applied Sciences

Research Assistant Intern: Create & Design a front-end website present the complicated LSM-Tree structures and their corresponding difference.

Cloud Computing Group, Institute of Trustworthy Networks and Systems, Tsinghua

Aug 2015 – Jun 2017

Advisor: Zhenhua Li, Assistant Professor of Cloud Computing Group, Institute of Trustworthy Networks and Systems, Tsinghua University

Research Assistant: Optimize the offline downloading redirector & establish the iDashBoard system, a private cloud platform

Users and Relation Group, Weibo Corporation, China

May 2017 – Aug 2017

System Developer Intern: Implement a middleware to support RPC and API verification between different platforms, also in charge of offline abnormal behaviors detection and analysis

PAPERS

Evaluating Top-k Meta Path Queries on Large Heterogeneous Information Networks

Nov 2017 – June 2018

- IEEE International Conference on Data Mining (ICDM) 2018
- *Authors: Zichen Zhu*, Reynold Cheng, Loc Do, Zhipeng Huang, Hoaci Zhang
- Propose a new method to measure the importance of a meta path between two nodes in Heterogeneous Information Network(HIN) and conduct a connectivity experiment to validate its performance

Design Continuums and the Path Toward Self-Designing Key-Value Stores that Know and Learn

July 2017 – Oct 2018

- The biennial Conference on Innovative Data Systems Research (CIDR) 2019
- *Authors: Stratos Idreos*, Niv Dayan, Wilson Qin, Mali Akmanalp, Sophie Hilgard, Andrew Ross, James Lennon, Varun Jain, Harshita Gupta, David Li, *Zichen Zhu*
- Derive a more accurate model for lookup cost in Fluid LSM-Tree; Implement & Improve AutoTune in Monkey to optimize configuration parameters in LSM-Tree-based key-value store

More projects can be seen in my GitHub: github.com/littlepig2013

AWARDS

- IEEE ICDM 2018 Student Travel Award
- Second prize in National Cloud Computing Application Innovation Contest 2016 (The 4th Place of 615 groups)
- First prize of Huayu Scholarship in Software department of Tsinghua University in 2016

SKILLS

Programming: C++/C/Python/JavaScript/Erlang/Haskell/; **Web Development:** HTML/CSS/Django/Flask/CodeIgniter

Database: Oracle/MySQL/Cassandra/Redis; **Distributed:** MapReduce/Spark/Giraph/Pregelplus