Zichen Zhu

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EDUCATION

Hong Kong University *Sep 2017 – Present*

- MPhil in Database group, Computer Science
- Research Interest: heterogeneous information network, graph database

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), Computer Networks and Architecture (91, 9/58), Computer System Software (90, 9/58), Software Engineering (91, 10/58)

Current Research Interest: Graph Database, Graph Algorithms, Heterogeneous Information Network and Internet Application

EXPERIENCE

Data System Laboratory, SEAS, Harvard University, U.S. *June 2016 – Oct 2016*

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

Research Assistant Intern: Design & implement a Q-learning system to explore user's interest in a dataset, and introduce a similarity measure to accelerate the learning process.

Cloud Computing Group, Institute of Trustworthy Networks and Systems, Tsinghua *Aug 2015 – Jun 2017*

Advisor: Zhenhua Li, Assistant Professor in 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

SELECTED PROJECTS

SignSim Optimization in Weighted Heterogeneous Information Network *Nov 2017 – Dec 2017*

- Optimize the SignSim measure and make it support weighted HIN
- Validate its performance on recommendation task, compared with WsRel, exPathSim and HeteSim in IMDB dataset

iDashBoard: An Elastic Virtual Cloud Server Monitoring System *Sept 2015 – May 2016*

- Establish a private cloud platform, which supports different-type online virtual machine applications
- Construct a prediction framework of the opening progress of a virtual machine

Other project experience

- An extension of grid-based method to support top k nearest neighbor searching in high-dimension data
- An instant analytics system for a large set-up box dataset based on Flask and Spark
- Sub-images matching system implemented by Haskell, support several interferences including linear smoothing blur, color reinforcement blur, black pollution
- More projects can be seen in my GitHub: github.com/littlepig2013

AWARDS

- Second prize in National Cloud Computing Application Innovation Contest 2016 (Top 4 of 615 groups)
- First prize of Huayu Scholarship in Software department in 2016

SKILLS

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

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