

YUE GONG

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EDUCATION

Southern University of Science and Technology, Shenzhen, China Sep.2016 - Present

Bachelor student in Computer Science and Engineering (CSE), expected June 2020

GPA: 3.88/4.00 (2/145)

The University of British Columbia, Vancouver, CA

July.2018. - Aug.2018

Summer Session in Electrical and Computer Engineering (ECE)

GPA: 4.00/4.00

EXPERIENCE

University of California, Irvine, Irvine, America

July.2019 - Sep.2019

Research Internship in Information and Computer Science Department (ICS)

Southern University of Science and Technology, Shenzhen, China

Sep.2018 - Jan.2018

Teaching Assistant in C and C++ Programming

RESEARCH PROJECT

Speed Up Query Execution by Pushdown In AsterixDB

July.2019 - Sep.2019

Individual Research Project Supervisor: Prof. Michael Carey

AsterixDB is a Big Data Management System. To avoid the expensive memory copy cost between operators (e.g. project, select, assign), we push execution logic down to the data-scan stage as much as possible for three patterns of queries.

- Explore three patterns of query on which pushdown can have a performance impact
- Integrate new rewriting rules into a large code-base and achieve at most 34.6% speed-up
- Design comprehensive benchmarks to test the performance

Efficient Cache Management for Replicated Web Search Engine

Sep.2018 - Present

Individual Research Project Supervisor: Prof. Bo Tang

Uniform caching scheme in most search engines simply caches the same content on all the servers which does not exploit the variations among queries. To tackle this limitation, we want to develop a new caching scheme which diversifies the cache contents in different servers by training past query log.

- Provide the theoretical inapproximability proof of diversified caching problem
- Implement a framework with a suite of techniques and heuristics for diversified caching
- Enhancing the cache admission process with semantic information of words.[in progress]

STANDARD TESTS

TOFEL Test: 109 (30R, 28L, 24S, 27W)

Feb.2019

GRE General Test: 321 (153V, 168Q)

May.2018

HONORS AND AWARDS

1st Prize, Scholarship for Outstanding Student (5%)

Sep. 2017

2nd Prize, Scholarship for Outstanding Student

Sep. 2018

Scholarship for Outstanding Fresher

Sep. 2016

National Chemical Olympiad (National Second Prize)

Oct. 2015

National Mathematical Olympiad (National Third Prize)

Oct. 2015