Baixiang Huang

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EDUCATION

Central South University   Hunan, China
Bachelor of Engineering, Computer Science and Technology, GPA: 84.71/100   September 2015 – June 2019

RESEARCH EXPERIENCE

Central South University, supervisor: Professor Anfeng Liu   Hunan, China
Research Assistant   March 2018 – April 2019
- Modeled vehicular networks consisting of sensors, vehicles, and data centers. Programmed in Java.
- Improved the efficiency of data collection in smart cities by deploying data centers using a machine learning approach (bisecting K-means algorithm).
- Analyzed and tested the proposed schemes based on more than 25 million records of real-life trajectory data.

Central South University, supervisor: Professor Anfeng Liu   Hunan, China
Research Assistant   February 2017 – March 2018
- Researched Information-Centric Networking (ICN) and simulated a scenario of ICN. Programmed in Java.
- Developed algorithms to improve cache replacement policies.
- Evaluated delay, cache hits, and network traffic of the proposed algorithms in comparison with five classic algorithms.

Central South University, supervisor: Professor Anfeng Liu   Hunan, China
Research Assistant   December 2016 – January 2017
- Extracted fifty million rows of logs using Scrapy.
- Collaborated with senior research team to reformat and transition raw data.
- Investigated and analyzed data using Hive.

PUBLICATIONS

2- **Huang B**, Liu W, Wang T, et al. Deployment Optimization of Data Centers in Vehicular Networks[J]. *IEEE Access*, 2019.
   [PDF] [IEEE Xplore]
1- **Huang B**, Liu A, Zhang C, et al. Caching Joint Shortcut Routing to Improve Quality of Service for Information-Centric Networking[J]. *Sensors*, 2018, 18(6): 1750.
   [PDF] [MDPI]

HONORS

Captain of the school's soccer team, 2015
Second prize in the final of National Secondary School Mathematic Competition, 2012
Third prize in the final of Hua Luogeng Golden Cup Youth's Invitational Mathematic Competition, 2010

SERVICE AND LEADERSHIP

Datong Middle School   Qinghai, China
Volunteer   June 2015 – Present
- Teach mathematics and answer questions to disadvantaged youth.
- Aid other teachers on coursework and grade homework.

Local Community   Qinghai, China
Organizer of a Campaign   July 2016 – August 2016
- Investigated the high prevalence of endemic gallstones in the town of Datong.
- Improved 236 lives by informing residents about the negative influence of cholesterol-rich diet and installing water filtration systems.

Yongzhe Mountaineering Club   Qinghai, China
Founder   October 2013 – August 2015
- Organized weekly training.
- Looked for potential patrons and secured sponsorships from a local business.
- Reached the summit of seven mountains above 15,000 feet.

SKILLS AND INTERESTS

- Python, Java, SQL, R, Shell script, Git, HTML
- Hadoop, Oracle Database, MongoDB, MATLAB, Boson NetSim, Multisim
- Mountaineering, Chinese painting, Soccer, Swimming