Yao Xie

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EDUCATION

The University of California, Los Angeles (UCLA), Los Angeles, California, USA

Sep. 2017 - Present

M.S. in Computer Science, GPA: 3.96/4.0, Grader of Fundamentals of Artificial Intelligence

Shanghai Jiao Tong University (SJTU), Shanghai, China

Sep. 2013 - Jun. 2017

B.S. in Computer Science, GPA: 3.83/4.3, Teaching Assistant of Data Structure

TECHNICAL SKILLS

Programming Languages: C/C++, Python, C#, JAVA, SQL, PHP, HTML, MATLAB, IATEX

Platforms: Windows, Linux, Visual Studio, Android Studio

Internship

Google, YouTube Infrastructure, Mountain View, California, USA (C++)

Jun. 2018 - Sep. 2018

Software Engineer Intern

- Implemented auto cleanup for table creation/data registration failure in query engine Procella to improve usability.
- Added the new feature of refreshing computed file sets for specified table with date partition to make YouTube data comply with General Data Protection Regulation (GDPR) (EU).
- Implemented regression tests for separated MetaDataServer/RegistrationServer architecture in Procella.
- Added GRANT/REVOKE access control support on Datascape table for Procella.
- Introduced MFS file cache to reduce the overhead of creating MFS file for shuffle ops in simple queries (x1.2 speedup).
- Added the new feature of enabling dynamic shuffle for GROUP BY queries followed by shuffle JOIN.

Microsoft, APGC CSS, Shanghai, China (C#, SQL)

Jun. 2016 - Sep. 2016

Support Engineer Intern

- Provided technical solutions to System Center Configuration Manager by debugging, log tracing, and error reproducing.
- Wrote SQL queries to retrieve internal personnel information for technical reports.
- Won 1st place (see Project Mr. Chorder) in Microsoft Young Hackathon at Shanghai site.

Projects

IMDB Movie/Actor Database System (PHP, HTML, SQL)

Apr. 2018 - May. 2018

- Built a database system on movies/actors. Created a web interface for users to interact with MySQL database and used Bootstrap to design the web pages.
- Built links between data, implemented a movie review system and search functionality.

High-definition Video Wireless Transmission Optimization (C++, MATLAB, Python) Apr. 2017 - Jun. 2017

- Developed an optimal relay location algorithm using Tensor Recovery in MATLAB for high-definition video wireless transmission where obstructions exist.
- Implemented a three-end system on three laptops (sender, relay, receiver) using C++ and a Python-controlled Roomba iRobot for real-life application.
- Achieved up to 5 times better performance in quality, stability, and demonstrated the ability to environment adjustment.

Mr. Chorder, A Music File-to-Score Transformer (C#)

Aug. 2016

- Implemented the music score prediction module using C4.5 Decision Tree. Achieved an accuracy of up to 95% in recognizing scores with small training sets.
- Implemented a PDF render library for automate music sheet generation using iTextSharp.

Android Based Car Controlling (JAVA)

Oct. 2015 - Dec. 2015

- Developed an android application that could control the movement of a toy car through Bluetooth.
- Implemented multiple controlling methods, such as voice recognition (using iFLYTEK Open Platform speech technology), screen gesture, gravity (using Gyro/Acceleration sensors).

PUBLICATIONS

Paper: Yao Xie, Xiao-Yang Liu, Linghe Kong, Fan Wu, Guihai Chen, Athanasios V. Vasilakos, "Drone-Based Wireless Relay using Online Tensor Update", IEEE International Conference on Parallel and Distributed Systems (ICPADS), 2016. Patent: Linghe Kong, Yao Xie, Fan Wu, Yifeng Cao, Xiao-Yang Liu, Guihai Chen, "Drone-Based Optimal Relay Locating Method and System", public, China, 2016.

Honors & Awards

Excellent Graduate of SJTU CCF Certified Software Professionals (Top 3.61%) Meritorious Winner (acceptance 9%), Mathematical Contest in Modeling Scholarship for Academic Excellence, SJTU Arawana Scholarship (total 30 students at SJTU) Jun. 2017 Sep. 2015

Apr. 2015

Nov. 2014, 2015, 2016

Nov. 2014