

Qian (Arthur) Wang

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EDUCATION*

- University of California, San Diego (UCSD)** 09/2015 – 12/2016
- M.S. in Computer Science (GPA: 3.74 / 4.00)
 - Focus on database system (implementation / theory) & artificial intelligence (speech processing / data mining)
- Shanghai Jiao Tong University (SJTU)** 09/2011 – 08/2015
- B.E. in Electrical & Computer Engineering (GPA: 3.74 / 4.00, Rank: top 3%)

EXPERIENCE

- Software Engineering Intern** 06/2016 – 09/2016
Google Inc. Google Payments Team Mountain View, CA
- Participate in the lifecycle of design, development, test and deployment.
 - Establish the RPC server to run the presubmit service.
 - Check and report the validity of schema changes based on distinct criteria.
 - Implement the unit tests for all the functional components.
- Undergraduate Teaching Assistant[†]** 09/2012 – 08/2015
University of Michigan - Shanghai Jiao Tong University Joint Institute Shanghai, China
- Set up test cases with different difficulty levels for course projects.
 - Led recitation classes, holding office hours and grading exams.
 - Was awarded as one of the five outstanding TAs.

SELECTED PROJECTS‡

- XQuery Processor** 03/2016 – 06/2016
- Evaluated the simplified XQuery on an input using a recursive routine with Java.
 - Detected and rewrote FOR and WHERE clause computation with JOIN operator through hash join.
- Speaker Identification System** 03/2016 – 06/2016
- Conducted the voice activity detection to increase the system performance.
 - Extracted MFCC and LPC coefficients as the voice feature.
 - Trained the vector quantization - Gaussian mixture model for clustering.
 - Achieved an average accuracy of 98.6 %.
- OS X EI Capitan Micro Benchmarking** 01/2016 – 03/2016
- Measured CPU and OS service performance with multi-thread programming.
 - Estimated network round trip time, bandwidth and connection overhead by socket programming.
 - Obtained the base hardware performance in C based on methods from several technical papers.
- Head Wearing Eye-Tracking Camera** 09/2014 – 12/2014
- Utilized Raspberry Pi microprocessor and independently assembled mechanical structure as the platform.
 - Customized a binarization based eye-tracking algorithm in Python to move the phone and take the pictures.
 - Developed an Android App to establish the communication between the microprocessor and the phone.

SKILLS

Java (database implementation / query processing) C (embedded system design / operating system benchmarking)
C++ (encryption in wireless security / mesh generation algorithm) Python (PySpark data mining and analytics)
Matlab (speech compression and recognition)

LANGUAGES

Mandarin (Native), English (Advanced), Japanese(Advanced)

* Find the courses I've taken on <http://wangqian1992511.github.io/education.html>

† Find the courses I've TAed on <http://wangqian1992511.github.io/teaching.html>

‡ Find more about my projects on <http://wangqian1992511.github.io/project.html>