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.

AWARDS & CERTIFICATES

– First place in Microsoft College Code Competition in UCSD 10/2015
– Outstanding Teaching Assistant in UM-SJTU Joint Institute (5 TAs per year) 05/2015
– Outstanding Graduate in Shanghai (top 5% in SJTU) 04/2015
– National Scholarship (top 2% in SJTU) 10/2014
– Level N1 of the Japanese Language Proficiency Test (highest level) 12/2012
– First Prize in National Olympiad in Informatics of Province (top 1‰ in province) 11/2010

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 %.

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)