YANG PAN

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2410 Shakespeare St. Houston Texas 77030

EDUCATION

Rice University	Houston, Texas
Master of Computer Science	*Aug. 2017 - Dec. 2018 (expected)*
Shanghai Jiao Tong University	Shanghai, China
Bachelor of Science in Engineering, Automation	*Sept. 2013 - June 2017*

EXPERIENCE

Performance and Capacity Engineer Intern, Facebook — Menlo Park, California
Supervised by Someone, Infrastructure Team — *May 2018 – Aug. 2018*

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Research Assistant, Shanghai Jiao Tong University — Shanghai, China
Advised by Prof. Jie Yang — *Dec. 2016 – June 2017*

· Studied image hashing and retrieval algorithms on large data sets, especially data dependent supervised hashing.
· Introduced additional constraints to the optimization problem of Latent Factor Hashing (LFH), and applied two-stage optimization method to maximize the penalized log-likelihood function.
· Introduced nonlinearity in regression models, and compared them using Akaike information criterion (AIC).

SELECTED PROJECTS

MyDB Database System — Houston, Texas
Supervised by Prof. Chris Jermaine — *Jan. 2018 – Apr. 2018*

· Implemented infrastructure of database system, including an LRU buffer manager and record management tools.
· Implemented two-pass multiway merge sort (TPMMS) algorithm, and B+ tree based on the infrastructure.
· Built an SQL front end with syntactic and semantic checking using flex and bison, together with a back end that excutes selection, projection, join (supporting scan join and sort merge join), aggregate and grouping operations.

Reliable File Transfer and Intra-Domain Routing Protocols — Houston, Texas
Supervised by Prof. T. S. Eugene Ng — *Sept. 2017 – Nov. 2017*

· Designed and implemented a reliable file transfer protocol on unreliable network, using cyclic redundancy check and sliding window, which could deal with up to 95% packet loss, duplicate, delay, mangle, and reorder.
· Implemented link-state (LS) and distance-vector (DV) routing protocols in C++ for intra-domain routing.

Website HurriCare for Natrual Disaster Response and Recovery — Houston, Texas
Project of HackRice 7 Event — *Sept. 2017*

· Developed a website that provides disaster-related information and allocates donations after a natural disaster.
· Designed an efficient matching algorithm to allocate donations, such that the needs of the victims from damaged areas are met to the maximum extent, and the transportation distance for distributing is kept to be short.
· Implemented an HTML webpage using Google Map API to display a map with markers indicaing dangerous areas.

TECHNICAL STRENGTHS

Languages	Proficient in C/C++, Python; Comfortable with Haskell, MATLAB, Verilog
Platforms	Windows, macOS, Linux (Ubuntu)
Tools	PyTorch, Keras, scikit-learn, OpenCV, MySQL, LaTeX, Multisim