DONG JIN (JIN) YU

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EDUCATION

University of California, Los Angeles   *June 2015*
B.S. in Computer Science (June 2015) CS GPA: 3.80 / Overall GPA: 3.59
M.S. in Computer Science (June 2016) with focus on Distributed Systems

PROJECT

PhotoHangout (Java)   June 2015
· Real-time collaborative photo editing IOS Application (https://www.youtube.com/watch?v=VOUcd-RqMaQ)
· Designed/implemented back-end architecture from service layer to DB (MySql) required for the mobile app.
· Utilized Websocket (JSR 356) for live streaming session and REST (Jersey) for back-end services.

Content Distribution Network (C++)   January 2015
· Designed/implemented CDN with Load Balancer, Meta-data Server, Local Cache Server, Central Storage Server.
· Distributes clients' requests to cache servers based on selection algorithm to store/transfer files efficiently.
· Client syncs automatically with cloud storage, and file hash is used to optimize the sync flow.

Bot/Human Prediction (Python, R)   May 2015
· Analyzed bid history dataset, bidder info dataset to construct an ensemble model to predict.
· Successfully extracted multiple useful features to help achieve 88% accuracy of the model.

Hangman Solver (C++)   January 2015
· Optimized search time and memory usage by using Trie to construct a dictionary.
· Predicts a phrase correctly with less than 3 misses 85% of the time.

WORK EXPERIENCE

hulu   June 2015 - August 2015
Software Developer Intern, Core Services   *Los Angeles, CA*
· Designed/implemented a scalable real-time view counter for all videos/shows at hulu that handles 1000 views/s.
· Implemented it in two different ways (one with HBase and the other with Cassandra) to compare their performances.
· Understood HBase/Cassandra internal structures/algorithms and designed schemas accordingly.
· Implemented daemon that pops views from Redis-backed service, aggregates, and makes batch writes to HBase/Cassandra.
· Implemented a process that runs periodically to scan the entire HBase/Cassandra and copy all the data to MySql.
· Used Flask to implement a simple webapp that displays view counts for demonstration, verification purpose.
· Wrote MapReduce jobs to parse logs in HDFS to analyze the performances of various existing services.
· Set up HBase stage cluster with 4 VMs from scratch and maintain it.

Scalable Analytics Institute (UCLA)   January 2015 - June 2015
Undergraduate Researcher   *Los Angeles, CA*
· Implemented large-scale ML algorithm APIs (logistic regression, k-means) for IMRU (Iterative Map Reduce Update:
a MapReduce framework optimized for iterative reads) on top of Hyracks (Distributed FS).
· Optimized IMRU's reducer performance by implementing an aggregation tree algorithm for reduce jobs.

eBay Inc. (Paypal)   June 2014 - September 2014
Software Developer Intern, Merchant Services   *San Jose, CA*
· Developed REST service (in Java, Jersey) that updates/retrieves merchant preferences.
· Implemented DB access layer, business logic, client stub to make calls to other services.