

Yingxue MEI

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EDUCATION

Carnegie Mellon University

School of Computer Science, Institute of Software Research

Master of Science in Information Technology – eBusiness Technology Program

Pittsburgh, US

Aug 2016

- **GPA: 3.9/4.0**

- **Courses:** Cloud Computing, Web Application, Web Services, Advanced Relational Database, Data Mining, Software Design (System Architecture), NoSQL Database Management, Search Engine Portals, J2EE Web Application Developments, etc.

Shanghai University of Finance and Economics

School of Information Management and Engineering

Bachelor in Information System Management with concentration in Electronic Business

Shanghai, CN

Jun 2013

- **Core Courses:** Object-Oriented Program Design(OOD Java), Data Structure, Web Applications (HTML, XML, CSS), Introduction to Programming Design(C), Management Information System (SQL)
- **Honors:** 2010 (Top 6%), 2011 (Top 10%) and 2013 (Top 10%) People's Scholarships

SKILLS

- Java, JavaEE, Algorithms, Data Structure, Spark (Scala), Hadoop, MapReduce, Kafka, Samza, MySQL, NoSQL, RESTful Web Services, Multi-tiered Web Application, databases, Linux Environment (Shell), JavaScript, GitHub, okHTTP, Retrofit, RDBMS

PROJECTS & EXPERIENCES

Twitter Analytics Web Services

Jan 2016 – Apr 2016

- Used Hadoop on Amazon EMR to conduct ETL on 300 millions (1T) of raw tweet messages for emotion score analytics
- Tuned and optimized HBase and MySQL performance to serve complex read queries of search functions with
- Built a RESTful Web application running on high performance non-blocking Undertow server as front end

Cloud Computing Projects

Jan 2016 – May 2016

- **Scaling, Elastic and Failure Handling**
 - implemented scalable load balancer on round-robin, CPU-utilization strategies, conduct cluster health monitor
 - Handle consistency in Key-value store, and implemented LRU Cache to fast fetch data for read/write request
- **Cloud Storage and Databases**
 - Manipulated flat files with awk, grep, loaded files, connect to MySQL and HBase(NoSQL) by JDBC and Java API.
 - implemented Partitioning(Sharding) and replication to handle read/write on strong and eventual consistency
 - implemented social networking timeline with heterogeneous back-ends by utilizing MySQL, HBase, MongoDB
 - OLAP data warehousing used Hive to do batch process, implemented Impala and RedShift
- **Analytics Engines for the Cloud**
 - Batch Process with AWS EMR mapper and reducer jobs to generate database for auto-filling hints in search engine
 - Used Spark in Scala to handle RDD and analyze social networking graph and implement PageRank algorithm
 - Stream Processing with Kafka and Samza to implement the streaming matching of cabs to users (Uber's match process)

Retrofit Framework for Client-Side Applications

Mar 2016 – Apr 2016

- Developed robotic tweeter account under Square Retrofit framework and Twitter API to tweet, retweet and search tweets
- Based on MVC design pattern, realized OAuth authentication with okHTTP APIs

Carnegie Mutual Fund Web Application

Jan 2016 – Feb 2016

- Developed interactive web pages (HTML/JavaScript) to simulated mutual fund transactions, utilizing Bootstrap
- Developed RESTful web services using J2EE MVC (handler), handled concurrency control, database lock and transaction
- Utilized MySQL to store user information, transaction history, fund information and price history, developed on AWS server
- developed API which generated JSON output and tested in Apache JMeter

User Interface Design and Testing

Oct 2015 – Dec 2015

- Implemented the prototype of an e-Commerce website using HTML, CSS and JavaScript
- Performed heuristic analysis of the prototype and conducted users' tests, improved prototype based on real users' feedback

INTERNSHIP

Shanghai University of Finance and Economics

Software Development Engineer

Jul 2013 – Dec 2014

- Designed the architecture for promotional website to attract potential students and candidate, implemented by utilizing J2EE techniques, MVC model (struct), GenericDAO ORM framework
- built up database in MySQL, designed the user interface in JSPs by utilizing HTML, CSS and Javascript