SIQI (Cady) WANG

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Education

Carnegie Mellon University   **09/2015-08/2016**
   M.S. Information Technology, School of Computer Science, GPA: 4.0/4.0
   Cloud Computing, Fundamentals of Computer Science, Java Programming, J2EE,
   Web Application, Data Structure and Algorithms, Data Mining, Software Design
Shanghai Jiao Tong University   **09/2009-06/2013**
   Bachelor of Marketing & Information System

Skills

- Languages: Java ~ Python > Bash > JavaScript > Scala
- MySQL, HBase, MongoDB, Hadoop MapReduce/Apache Spark, Hibernate, UML, Undertow
- AWS/Azure, Linux/Unix, IntelliJ, GitHub, Cloudera
- Hands-on Skills: Cloud Computing, Web Application, RESTful Web Services, ETL, System Design.

Projects

Twitter Analytics Web Service   **03/2016-04/2016**
- Led a team of 3 and ranked 4th among 77 CMU teams in 4-hour live test.
- Utilized Hadoop MapReduce framework to conduct ETL on 300 million (1TB) of raw tweet messages.
- Implemented a RESTful web application running on NIO server, with Cloudera cluster as back-end.
- Designed schema for both HBase and MySQL databases and tuned performances to serve complex and intensive read/write queries and achieve required QPS.

Financial Fund Website Development   **02/2016**
- Designed and developed a fund transition management web application using J2EE MVC design pattern.
- Applied Hibernate framework for ORM to access MySQL database and deployed application on AWS server.
- Designed the user interface with HTML, CSS and JavaScript.

Applications with Cloud Storage Service   **03/2016**
- Implemented "Coordinator" to assure strong consistency on intensive replication/sharding storage requests.
- Realized social networking timeline, intelligent friend-recommendation, and influential user identifying functions with heterogeneous backend including MySQL, HBase, MongoDB for data store.
- Built simplified Uber driver-client real-time matching and surge pricing application with stream processing.

Real-time Bus-Track Mobile App   **05/2016**
- Designed architecture of a web-based mobile app supporting real-time bus tracking and route planning.
- Implemented the app applying MVC design pattern, HTML5 and Bootstrap 3.0 with jQuery plugins for forms, retrieved real time bus data and routes planning data using PAAC API and Google Directions API.

Data Mining for Carnegie Financial Service   **04/2016**
- Conducted data mining on datasets with customer profile attributes to classify labels on promotion channel.
- Achieved accuracy of 94.20% and 96.22% separately by implementing K-Nearest Neighbors (KNN) algorithm and C4.5 Decision Tree algorithm using Java.

Auto Scaling, Fault Tolerance & Elasticity Project   **01/2016**
- Deployed an auto-scalable cluster by applying AWS & Azure Java APIs to manage cloud resources real-timely.
- Developed custom load balancing algorithm by dynamically monitoring resource utilization and assuring fault-tolerance by elastic scaling.
- Designed adaptive multi-tier caching strategy for key-value pairs with Java, improving QPS by 3000%.

Experience

Dow Chemical Co. Ltd.   **06/2015-07/2013**
   Business Analyst – Logistics Reporting System
- Optimized monthly data collection and reporting process by Java automation, promoted efficiency by 70%.
- Identified 3 key cost saving opportunities by mining data of 1-year shipping freight intra-Asia.