Zhehao(Vince) WU

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EDUCATION

Carnegie Mellon University Aug. 2016 - Aug. 2017
Master of Science in Information Technology, School of Computer Science
GPA:3.88

Shanghai Jiao Tong University Sep. 2012 - Jun. 2016
Bachelor of Engineering in Mechanical Engineering and Automation

SELECTED PROJECTS

Social Networking Timeline Development with Heterogeneous Backends Feb. 2017 - Mar. 2017
- Configured, populated and deployed both SQL and NoSQL databases in a social network web service context.
- Used MySQL to store user profiles, HBase to store social graph, and MongoDB to build user homepage.
- Integrated SQL and NoSQL databases to work on complex applications to build a social networking website.

AWS and Azure Horizontal Scaling and Auto Scaling Feb. 2017 - Feb. 2017
- Used AWS and Azure APIs to programmatically control cloud resources in response to demand.
- Deployed an Elastic Load Balancer along with Auto Scaling Group on Azure and AWS, and set up CloudWatch as well as Scaling Policy through Java APIs.
- Handled the load at the average rate of 1819.05 requests per second.

Financial Service Website Development Jan. 2017 - Feb. 2017
- Developed a cash and fund management and transition website using the J2EE MVC design pattern.
- Designed the website user interface with CSS, HTML and JavaScript.
- Designed the database schema and applied an ORM which called GenericDAO to access MySQL database and deployed on AWS.
- Applied the RESTful Web Service Framework Jersey to develop a web service which enabled user to use the financial service through request.

Big Data Analytics Using MapReduce Jan. 2017 - Feb. 2017
- Developed data filter to screen out the English Wikipedia articles in wikipedia's page view dataset.
- Applied MapReduce model on AWS EMR to process all the page view data for all of Nov 2016 (128G) of Wikipedia.
- Analyzed and visualized the output data to find the trend in November 2016.

PROFESSIONAL EXPERIENCE

Deloitte Consulting Co. Ltd. Sep. 2015 - Nov. 2015
Advanced Quantitative Analysis Department **Shanghai**
- Applied the Expectation Maximization Algorithm to fill the missing data of investigating process in MATLAB.
- Collected data including size, price, producing country and configurations of over 180 types of vehicles, analyzed factor importance in price decision regression analysis.
- Investigated the precision and robustness of several models in Classification and Regression Trees Analysis in our vehicle price prediction, including Regression Tree, Random Forest, Boosting, Lasso and Ridge Algorithms.
- Used "Random Forrest" model, which has the greatest precision and robustness in our model, to build an auto-pricing model and predict the price of vehicles. The relative error of the prediction is less than 5% for 95% of vehicles.

HONORS & AWARDS

Scholarship of Academic Excellence. Class C, Top 10% 2014
Merit Student in SJTU 2014
Advanced Individual in Winter Vacation Social Practice 2014

TECHNICAL SKILLS

Programming: Java, J2EE, C++, Bash Script, HTML, CSS, JavaScript
Cloud Computing: MapReduce, AWS(S3, EC2, EMR, RDS), Azure, Google Cloud Platform
Database: MySQL, sqlServer, NoSQL(HBase, MongoDB)