SHANGWEN YAN

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EDUCATION

New York University   05/2019
Master of Science, Electrical Engineering   Brooklyn, NY, U.S.
Coursework: Machine Learning, Data Structure & Algorithms, Internet Architecture & Protocols

Beihang University   07/2016
Bachelor of Engineering, Electronic Information Engineering, GPA: 3.24/4   Beijing, China
Outstanding Graduate, granted by Beihang University in January 2016

RELATED EXPERIENCES

Tarena International Inc   09/2016-08/2017
– *Software Engineering Intern*   Beijing, China
- Participated in the development of e-commerce platform "JingTao"
- Focused on backend development with SSM framework to implement the business logic

Network Security Laboratory, Beihang University   07/2015-08/2015
– *Research Assistant*   Beijing, China
- Participated in the design and production of the disposable password token, using assembly language

ACADEMIC PROJECTS

Prediction of Robot Power Consumption (Python, Anaconda)   09/2017
- Implemented machine learning method to predict the current draw as a power consumption performance index, using attributes such as strain gauge measurements, joint angle, velocity, acceleration, etc.
- Trained multiple linear regression module on actual production data, and find the least squares solution
- Measured the fit on independent dataset and calculated the normalized RSS as reference
- Projects posted on https://github.com/Shangwen-Yan/Machine-Learning

Analysis of Browsing Data from Telecom Users (NIO, ZooKeeper, Hadoop, Spark, ECharts)   06/2017
- Processed data to analyze user's favorate app, website, time online and places that surf most frequently
- Distributed design: one jobtracker converted data into object and distribute file split to next stage, two first-stage engines calculated data, one second stage engine merged and stored data to MySQL database
- Visualized data to form concise and elegent statistical graph with ECharts
- Also have a standalone version using Spark RDD to implement the same function

Collection & Analysis of Web Traffic Data (Hadoop, Flume, Kafka, Hive, MySQL)   04/2017-05/2017
- Used JavaScript to make a request to log server after gathering website's traffic data, such as pv, uv, vv, br
- Log4jAppender function in log server transmitted the data to Flume cluster (in avro form)
- Off-line data were saved in HDFS, processed in MR, Hive and stored in MySQL through Sqoop
- Real-time data was transmitted to Kafka and calculated in Storm to realize monitor and alert function

E-Commerce Platform "JingTao" (Java, JavaScript, CSS, HTML, MySQL, Redis)   01/2017-03/2017
- Developed backend logic with SSM framework(Spring, SpringMVC, MyBatis) in JAVA to access database and return processed data to the front page
- Deployed wars on Linux, implemented load balance and high availability through Nginx in roll polling
- Implemented cross-domain access through HttpClient and JSONP
- Improved SSO(Single Sign On) function with user's ticked stored on Redis
- Self-learnt jQuery, zTree, AJAX, EasyUI skills to better fit the data format in frontend

TECHNICAL SKILLS

Programming Languages:	Java, Python, Shell, Scala, JavaScript, HTML, CSS, R
Operating Systems:	Windows, MacOS, Linux (CentOS)
Database Development:	SQL (MySQL,Oracle), NoSQL (HBase, Redis)
Frameworks:	SSM(Spring, SpringMVC, MyBatis), Hibernate, jQuery, EasyUI, zTree
Visualization Tools:	ECharts, R, Excel, MATLAB
Big-data Related:	Hadoop, ZooKeeper, Hbase, Hive, Flume, Kafka, Storm, Spark
IDE & Softwares:	Eclipse, Anaconda, SQLyog, PowerDesigner, VMware, Xshell, JSONView
Others Skills:	Nginx, Maven, SVN, Sqoop, Avro, NIO(Concurrent Package), RESTful, Git