SHANGWEN YAN

AVALON FORT GREENE, Brooklyn, NY 11201 | C: 347-320-7075 | sy2160@nyu.edu | github.com/Shangwen-Yan

EDUCATION

New York University   05/2019
Master of Science, Computer Engineering, GPA: 3.75/4   Brooklyn, NY, U.S.
Coursework: Machine Learning, Big Data, Internet Architecture & Protocols, Database Systems

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

DiDi Chuxing   05/2018-08/2018
– *Machine Learning Engineer Intern*   Beijing, China
- Develop machine learning platform which could be used by dragging components in graphic interface.

ECE Department, New York University   09/2017- 05/2018
– *Graduate Assistant*   Brooklyn, NY, U.S.
- Working with ECE Faculty on designated research needs.

Tarena International Inc   09/2016-08/2017
– *Software Engineer Intern*   Beijing, China
- Participated in the development of E-Commerce platform "JingTao" with SSM framework

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

ACADEMIC PROJECTS

DFlow Machine Learning Platform (Python3, Tornado, S3, Argo, K8s, Kafka, SparkStreaming)   05/2018-08/2018
- Investigate competing products, design API and implement backend logic using Tornado framework in python.
- Store configuration files in S3, implement DAG and run scripts of components using Argo.
- upload logs and metrics to Kafka, consume with SparkStreaming and save on HDFS in parquet format.

Movie Recommendation System (Python3, PyTorch, HPC, JupyterNotebook)   03/2018-05/2018
- Recommend movies to users based on rating history, genres of the movies using Auto-Encoder ans K-Means,.
- Other labs such as the prediction of taxi peak period, using K-Means, GD, CNN, SVMs, LASSO, PCA, Back-Propagation, etc. posted on: https://github.com/Shangwen-Yan/Machine-Learning
- Packages: sklearn, torch, pandas, scipy, numpy, matplotlib, etc

"Jobster" Social Networking Site (PHP, MySQL, JQuery, AJAX, JavaScript)   04/2018-05/2018
- Design and implement a website like LinkedIn, posted on: https://github.com/Shangwen-Yan/Jobster

Analysis of Browsing Data from Telecom Users (JAVA, NIO, ZooKeeper, Hadoop, Spark, ECharts)   06/2017
- Analyze user's favorite app, website, time online and places that surf at most frequently
- Distributed design: one job tracker, two first-stage engines to calculated data, one second stage engine to merge and store data.Visualize data to form concise and elegant statistical graph using ECharts and JSON

Collection & Analysis of Web Traffic Data (Hadoop, Flume, Kafka, Hive, MySQL)   04/2017-05/2017
- Transmit logs using Log4jAppender to Flume cluster (Avro serialization). Off-line data saved on HDFS, processed using MR, Hive and transferred to MySQL using Sqoop
- Real-time data transmitted to Kafka and calculated through Storm to realize monitor and alert function.

E-Commerce Platform "JingTao" (Java, JavaScript, CSS, HTML, AJAX, jQuery, Redis)   01/2017-03/2017
- Develop backend using SSM framework(Spring, SpringMVC, MyBatis) in JAVA. Implement cross-domain access through HTTP Client and JSONP. Improve SSO(Single Sign On) function with tickets stored on Redis.
- Deployed wars on Linux, implemented load balance and high availability through Nginx in roll polling

TECHNICAL SKILLS

Programming Languages:	Java, Python, PHP, R, Shell, Scala, JavaScript, HTML, CSS
Database Development:	SQL (MySQL, Oracle), NoSQL (HBase, Redis), MongoDB
Frameworks:	Tornado, SSM(Spring, SpringMVC, MyBatis), Hibernate, jQuery, EasyUI, ECharts
Big-data Related:	Hadoop, ZooKeeper, Hbase, Hive, Flume, Kafka, Storm, Spark
Others Skills:	Linux, Nginx, Maven, SVN, JSON, Avro, JAVA NIO, RESTful, Git, IBMCloud