Yukun Yuan

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EDUCATION

Northeastern University, Boston, MA, US   *Expected May 2020*
M.S. in Computer Software Engineering

Beijing University of Posts and Telecommunications , Beijing, China   *August 2014-June 2018*
B.Eng. in Computer Science (Network Engineering Track)

TECHNICAL SKILLS

Progamming Languages	Python, Java, HTML, CSS, Javascript, C, C++, SQL, R, MIPS
Web Technology	Spring MVC, Angular CLI, Django, Flask, Bootstrap, Hibernate, Selenium
Frameworks & Tools	Git, Docker, Kubernetes, Spark, Linux server, Apache Airflow, Scrapy
Databases	MySQL, MongoDB, SQLite, SQL server, Neo4j, Redis

PROFESSIONAL EXPERIENCE

Wayfair (*Boston, MA*) | *Software Engineer Co-Op*   *July 2019-Present(December 2019)*

- Develop data pipelines for operating on **Hive**, **Spark** and **SQL Server**, achieve workflow scheduling by using *Apache Airflow* Framework, and use **Buildkite** and **Jenkins** to achieve fast test and deployment
- Set up development environment on GPU Server and CPU Server, test and compare the performance and efficiency of Machine Learning Models like **LightGBM**, **H2O4GPU**
- Excavate the elasticity of the Prices in terms of past order records and validate the influence to demand, productize the Algo model into Restful APIs, and use **Docker** and **Kubernetes** to achieve deployment

IBM (*Beijing, China*) | *Software Engineer Intern*   *April 2018-August 2018*

- Responsible for designing and implementing ***Distributed Web Crawler systems*** on Scrapy and self-built Framework, and gathered about two million data
- Involved in building Health News ***Recommendation System***, finished the Prototype of part algorithms
- Managed *MySQL* and *Neo4j* databases, built Redis database and implemented its' high-speed access tools
- Integrated machine learning techniques to help solve data classification and consolidation problems by using Python (*Scikit-learn, Tensorflow*), and designed data pipelines for Algorithm Group

Chinese Academy of Social Sciences (*Beijing, China*) | *Data Engineer Assistant*   *Aug.2016-Apr.2017*

- Collected data for Auditing office of Chinese Academy of Social Sciences by using automatic *Web Crawlers*, built web crawler of Baidu Search with up 160kbs speed, gathered about one million data
- Involved in a group of TsingHua University for designing **Auto-NLP** platform of analyzing Aduit Documents
- Integrated and visualized the data by using *Numpy*, *Matplotlib*, *Pandas*, and generated data analysis reports

SELECTED PROJECTS

Recommendation System Based on Collaborative Filtering Algorithm | Graduation Design   Jan.2018-June

- Designed and implemented a fully featured movie recommendation website based on *Django* Web framework, used *Bootstrap* as the framework of front-end pages, achieved asynchronous Web applications by using *Ajax*
- Designed Switching&Stack *Hybrid Recommendation Algorithm*, and created Algorithm APIs for Web Server
- Used *Spark* Platform in the process of data calculating, and improved the efficiency by 15%

High Efficient Remote IOT Management System | Independent Developer   *Sept.2018-Dec.2018*

- Designed and implemented user-friendly Front-end application based on **Angular CLI** framework
- Built **RESTful APIs** based on **Express** Framework, and used **MongoDB** to manage data of the application
- Built device status analyzing system and implemented **Email-Automation** section to send analyzing reports

HONORS&AWARDS

Honorable Mention in Interdisciplinary Contest In Modeling (ICM), COMAP   *Jan.2017*
7th Place in Alibaba Big Data Competition by Technology Association   *Nov.2016-Dec.2016*