YUJI SHEN, M.S.

Software Engineer & Data Analyst

yuji.im.shen@gmail.com (412) 228-1560 http://yuji.im

TECHNICAL SKILLS

Python | R | Java | SQL | Git | D3.js | Apache Spark| Hadoop | Lucene | HTML | CSS NumPy | Pandas | Scikit-Learn | Matplotlib | caret | ggplot2 | AWS Certificates of Achievement from JHU, MIT, Duke, Stanford, Berkeley in Data Science & Big Data

WORK EXPERIENCE

Data Analyst Intern	- Chang	sha Exce	llent Inter	net Info	Service.	China
---------------------	---------	----------	-------------	----------	----------	-------

2013

- Led group of interns in participation of construction of Business section to attract investment
- Scraped information in web crawler tools, filtered through Java to collect sustainable companies' info
- Improved intern group data collecting productivity using data technologies

ACADEMIC & PERSONAL PROJECTS

U.S. Sexual Opinion Research - http://yuji.im/sex-edu

2015

- Composed research report on sexual opinion based on GSS and Fair's extramarital affairs data
- Applied hypothesis testing in **R** to show the relationship between education and opinion on affairs
- Created plots for trends and comparisons in ggplot2, generated HTML report in R Markdown

Display Ads Challenge

2015

- Predicted users' click-through rates on display ads based on large dataset
- Configured IPython server and Apache Spark cluster on AWS across two EC2 instances
- Performed feature engineering to handle categorical data, reduced sparse dimensions, predicted probability using Logistic Regression in Spark **Python** API

Pittsburgh Analysis & Visualization - http://yuji.im/vizburgh

2014

- Analyzed socio-economic data of Pittsburgh, built interactive visualization of data
- Utilized visualization techniques and **K-Means clustering** to analyze the data in R
- Visualized data by maps and multiple plots in D3.js, reduced workload by localstorage in HTML5

Twitter Hashtag Search Engine - http://yuji.im/hashtag

2014

- Constructed, deployed search engine on AWS to recommend Hashtag based on user's tweet
- Extract fields and built inverted index from UDI Twitter dataset in Java
- Implemented searching algorithm in Apache Lucene with Vector Space Model and Boolean Model
- Optimized relevance by combining scores from different fields and using fuzzy query

E-Commerce Database System - http://yuji.im/ecom-db

2013

- Developed an E-Commerce OLTP system and monitored database performance
- Devised 15 tables in 2NF with 1M rows dummy data and built B-tree indexes in MvSQL
- Implemented product searching pages and top sales report functions with PHP

EDUCATION

Data Science Mentee - SlideRule Data Science Workshop, CA

2015

- Mentored by data scientists from Deloitte and Glassdoor
- Built portfolio site and completed personal projects throughout the entire pipeline of data science

M.S. Information Science - University of Pittsburgh, PA

2015

- Graduated summa cum laude
- Collaborated with colleagues to accomplish academic projects using state-of-art technologies

B.B.A. E-Commerce - Hunan University, China

2013

• Graduated cum laude