WEI ZHANG

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Summary

- Python
- Pandas
- Apache Spark(PySpark)
- Agile
- SQL
- MongoDB
- Linux Bash
- Apache Hive
- ETL
- Data Visualization
- Statistical Models
- Machine Learning

Education

- George Washington University(GWU), Washington, DC
  Master of Science, Statistics GPA: 3.75/4.0 May 2014
- University of Cincinnati, Cincinnati, OH
  Master of Science, Civil Engineering GPA: 3.20/4.0 Jan 2012

Experience

➢ **Data Engineer** Net Esolutions Corporation Rockville, MD Jul 2014 – Now

- Built MySQL database from migrating tables of MS-SQL database (SQL, Python)
- Automated process of extracting, transforming and loading data using numpy/pandas (Python)
- Extracted data from XML, HTML sources with ElementTree (Python)
- Screenshot of whole website using selenium (Python)
- Built linear regression, classification models using scikit-learn (Python)
- Frontend web development using AngularJS and ReactJS
- Backend development by loading PostgreSQL, transformation of data structure (Node, Express)
- Visualized customized data results using D3.js and Tableau
- Visualized data and descriptive results with matplotlib (Python)

➢ **Data Analyst** FINCA International Washington, DC Mar 2014-May 2014

- Analyzing country specific survey data to report on the poverty profiles of FINCA clients
- Constructing a country specific poverty screening tool to be used to measure FINCA's poverty outreach

➢ **Data Analyst** Friends of Choice in Urban Schools Washington, DC Sep 2013-Mar 2014

- Training and supporting teachers in using data systems to conduct analyses
- Supporting data managers in preparation and cleaning of data to integrate with the main data system

➢ **Data Consultant** DC Power Supply, LLC Washington, DC Apr 2013-Aug 2013

- Metrics design and calculation based on post transaction historical data
- Customer retention analysis, prediction of customer lifetime value, and churn analysis using data mining

Projects

➢ **Traveling Salesman Problem Using Simulated Annealing,** GWU Washington, DC Dec 2013

- Used simulated annealing method to find out the shortest path connecting 100 cities
- Developed codes by applying modeling logics and created visualized results to show shortest path (R)

➢ **Credit Scoring Algorithms Improvement,** GWU Washington, DC May 2013

- Determined the project objective based on the purpose understanding and business interests
- Built classification models with logistic regression, random forests and k-nearest neighbors (R)

Certificates

- edX Verified Certificate for Introduction to Big Data with Apache Spark
- MIT Certificate for Tackling the Challenges of Big Data

Personal Web

- Wei's personal website: https://wei-Z.github.io
- Wei's blog: https://weizhangweb.wordpress.com/blog/