

Nan (Miya) WANG

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Language: Python, R, SQL, Scala;

Database: Oracle, IBM DB2, SQLite, MySQL, HDFS, Amazon S3;

Software & Framework: Spark, MapReduce, Hive, Databricks, Tableau, Spotfire, Weka, SPSS Modeler, SAS;

PROJECT

United Nations (*Natural Language Processing*)

- Collected and parsed text (pdf, txt, word, html) of cyber security strategies for 73 countries;
- Exhaustive Feature Engineering and Latent semantic analysis with Python;
- Project-managed progress of Fordham analytics team with Agile approach (Git);

Fordham University, Center for Digital Transformation (*Parallel Data Processing*)

- Developed python programs to automate data crawling (Twitter, articles, data) from web sources;
- Loaded unstructured data into Hadoop File System (HDFS);
- Created extract/transform/load (ETL) jobs for gigabytes of data with Spark API;
- Implemented option pricing models (Black Scholes) with multi-threading techniques;

Deloitte (*Machine Learning*)

- Intensive predictive modeling (Logistic Regression/Nearest Neighbors/Support Vector Machine/ RandomForest);
- Developed a web application to deploy the Machine Learning model using Microsoft Azure API;
- Interpreted quantitative models to levels of management with user-interactive visualization (R, Tableau);
- **First Prize** in Fordham Data Crunch;

BlueOptima (*Social Network Analysis*)

- Cleaned and transformed data (over 500,000 developers' coding efforts) collected from Agile tools (JIRA and Git);
- Conducted social network analysis and community detection for weighted bipartite graphs;
- Developed visualization (R igraph) and application (R Shiny) for a large bipartite network;

EXPERIENCE

Converseon

2016

Intern, Data Analyst

New York, NY

- Performed advanced analytics (content/market segment/sentiment analysis) based on the metrics provided;
- Scripted queries in proprietary analytics applications to automate text data (Twitter) feeds;
- Created and populated project monitors (Excel, Outlook and VBA) for multi-markets projects;
- Excellent in detecting signals, summarizing patterns and generating deep-dive qualitative/quantitative insights;

AXA, SL Financial Group

2015

Intern, Financial/Data Analyst

Hong Kong, China

- Conducted equity research to monitor new/ongoing developments in different markets;
- Pulled/updated/maintained client data with SQL queries in an Oracle database;
- Processed and visualized gigabytes of transaction data using R;
- Conducted analysis of portfolio and performance attribution (Mean-variance and MC simulation);
- Actively communicated with Risk Analysts to understand/document quantitative models for valuing complex securities;
- **Top Performer Award** for delivering great performance in a result-oriented and collaborative environment;

Pacific Northwest National Laboratory

2014

Intern, Business Analyst

Richland, WA

- Created macro variables to pull data from oracle and SQL server for daily/monthly data extracting;
- Performed data update tasks such as inserts, updates, joins, and deletes jobs in database;
- Analyzed large amount of regulatory data to assist management of multi-million dollar contracts portfolio;
- Partnered with offsite clients to determine contract performance, delivery schedules, and estimates of budgets;

Industrial and Commercial Bank of China, Electronic Banking Center

2013-2014

Intern, Business Analyst

Nanjing, China

- Worked on SQL Server Integration Services (SSIS) to integrate and analyze data from multiple homogeneous and heterogeneous information sources (Flat files, Excel, DB2, and SQL Server);
- Worked with Tableau server for daily/monthly dashboards.
- Performed information validation for analysis and enhanced efficiency of pre-qualification process;

EDUCATION

Fordham University, Information Systems Department

Expected 12/2016

Master of Science, Business Analytics, GPA: 3.9

- Courses: Text Analytics; Web Analytics, Big Data; Data Mining; Database; Risk Analytics; Financial Programming;

Nanjing Normal University

2015

Bachelor of Arts, International Business (Environmental Engineering), GPA: 3.6

- Courses: Microeconomics, Global Finance, Visual Basic Programming, Advanced Mathematics, Fundamental Physics;