**Nan (Miya) WANG**

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**Programming Language:** Python, R, SQL

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

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

**EXPERIENCE**

**Fordham University, Dr. Katsamakas (Area Chair**) 01/2016 – present

Research Assistant *(Data Science)* New York, NY

* Developed python programs to automate data crawling from web sources;
* Loaded unstructured data into Hadoop File System (HDFS) and created ETL jobs;
* Implemented text processing and topic modeling (latent Dirichlet allocation) with Spark API;
* Processed and analyzed image data through convolutional neural network in Caffe framework;
* Prepared tutorials for Business Intelligence (Tableau) and Cloud Computing (Machine Learning in Azure) workshops;

**Converseon** 08/2016 - Present

Intern, Data Analyst *(Digital Consultancy)* New York, NY

* Developed advanced SQL queries to retrieve market data with 10% higher relevancy;
* Integrated, validated and cleansed data from various sources for ad-hoc analysis;
* Conducted sentiment analysis on proprietary big data analysis software;
* Partnered with clients to generate reports/dashboards with deep-dive insights;

**AXA, SL Financial Group**  2015

Financial Analyst *(Financial Modeling)* Hong Kong, China

* Performed equity research to monitor new/ongoing developments in real estate/financial industries in different markets;
* Prepared, maintained and distributed ad-hoc reports for different levels of management;
* Conducted analysis of portfolio and performance attribution (Mean-variance and MC simulation);
* **Top Performer Award**; “2nd Runner Up” as a team. (Total 20 teams).

**Pacific Northwest National Laboratory**  2014

Business Contracts *(Database)* Richland, WA

* Retrieved, combined and cleansed data from a vast range of proprietary/government databases/applications/systems;
* Analyzed large amount of regulatory documents/data to assist management of multi-million dollar contracts portfolio;
* Partnered with offsite clients to determine contract performance, delivery schedules, and estimates of budgets;

**PROJECT**

**Fordham University**

Parallel Data Processing

* Loaded option data into S3 and built predictive models(Nearest Neighbors/Support Vector Machine) through Spark API;
* Implemented Newton/Muller-Bisection/Harley’s method for option pricing models with multi-threading techniques;
* Processed and visualized gigabytes of high-frequency trading data;

**BlueOptima**

Social Network Analysis

* Cleaned and transformed data (over 500,000 developers’ coding commitment) collected from Agile tools (JIRA and Git);
* Conducted social network analysis and community detection to evaluate developers’ productivity and collaboration pattern;
* Developed visualization (R igraph) and application (R Shiny) for a bipartite network with thousands of vertex and edges;

**Deloitte**

Machine Learning

* Improved previouss model (RandomForest) accuracy by 6% with advanced performance tuning techniques (Sklearn);
* Developed a web application to deploy the Machine Learning model using Microsoft Azure API;
* Interpreted the model to levels of management with user-interactive visualization; (Matplotlib)
* **First Prize** in Fordham March Madness Data Crunch Competition;

**EDUCATION**

**Fordham University, Information Systems Department Expected 12/2016**

Master of Science, Business Analytics, GPA: 3.9

* Courses: Text Analytics; Big Data; Data Mining; Database Management; 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;

**Others**

**Certificates:** Google Adwords & Google Analytics;

**Membership**: Steering Community in Fordham Business Analytics Society; Fordham Fintech Network; Red Cross Society of China;