Roger (Piaoyang) Hu

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Technical Skills

Programming: Python, R, SQL, Bash Shell Script
Data Visualization: Tableau, Plotly, Matplotlib, ggplot2, MS Office Suite

Professional Experiences

Deloitte

Manager in Transfer Pricing Consulting, Sep 2016 to Feb 2019	**San Jose, CA**
Senior Consultant, Sep 2014 to Aug 2016	**Chicago, IL**
Consultant, Jul 2012 to Aug 2014	**Chicago, IL**

Analytical Roles:

- Repealed $20 million medical device tax for an optical systems manufacturer by conducting an industry benchmarking analysis on the financial statements of over 500 North American medical device distributors and building a distribution pricing model supporting the reduction of tax base by 15%

- Defended a global automotive distribution company against IRS's proposed tax adjustment of $12 million by conducting regression analysis on transactions over twenty thousand invoices and proved that there is no statistical differences between the pricing for third-party transactions and intercompany transactions

- Conducted quantitative and qualitative researches on global publicly traded companies in the Osiris Database and performed industry-level profitability benchmarking analysis

- Built valuation models with Excel using market approach, income approach, and cost approach to support the strategical intercompany transfer of intangible assets

Managerial Roles:

- Actively managed 8 client engagements from scoping, engagement letter drafting, monthly billing, to the successful project executions which ultimately contributed to over $2 million revenues for the practice

- Coordinated with various internal Deloitte teams in responses to RFPs resulted in winning multi-year and multi-functional engagement contracts for the firm

- Presented to company senior executives during sales pitch by explaining complicated and technical analysis results in easy-to-understand graphs, tables, and languages

- Provided technical onboard training to new hires and mentored 4 consultants through their career progressions from consultants, senior consultants, to managers at Deloitte

Education

Northwestern University - BA Mathematics, Economics	**Evanston, IL**

Sep 2008 -
Jun 2012   **Relevant Courses**: _Probability Theory, Econometrics, Statistics, Linear Algebra, Consumer Insight_

Data Science Study and Personal Projects

Mar 2019 -
Current   **Certificates**: _Udacity Data Scientist Nanodegree, Coursera Data Science Specialization_

Personal Projects

- **Customer Churn Prediction – Spark:** Conducted EDA and feature selection on 54+ thousand rows and 18 columns of customer event logs and built a binary classification machine learning model using PySpark to predict customer churn at 0.85 F1-score and 0.83 AUC

- **Twitter Message Multi-Label Classification – Scikit-learn:** Built ETL and machine learning pipelines to apply Stochastic Gradient Descent learning on over 30 thousand Twitter messages to classify input texts into one or more of the 36 predefined disaster categories at 0.7 micro-weighted F1-score

- **Airbnb Booking Data Visualization- Matplotlib:** Conducted EDA on 7,695 active listings on Airbnb in Santa Clara County and drew insights from data visualizations to make recommendations on cost-effective room booking strategies for potential travelers to the area