

Siqi Xie

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EDUCATION

Cornell University, College of Engineering
M.Eng. Operations Research and Information Engineering

Ithaca, NY

Aug. 2021 – May 2022 (Expected)

- GPA: 3.92

University of Virginia

B.A. Mathematics & B.A. Economics

Charlottesville, VA

Aug. 2014 – May 2018

- Overall GPA: 3.76 Math GPA: 3.81

- Honors: Goldman Sachs Fund Scholarship (2017); Dean's List (2014-2017)

Related Courses: Data Mining and Machine Learning, Optimization, Big Data Technology, Database (SQL + MongoDB), Data Science with Python, Stochastic Process, Mathematical Statistics, Ordinary Differential Equations, Partial Differential Equations

PROFESSIONAL EXPERIENCE

BMO Financial Group

Chicago, IL

Senior Data Analyst

Aug. 2020 – Apr. 2021

- Developed a settlement plan for Canadian late-stage pre-write-off accounts based on delinquency status, risk segmentation, and liquidation rate to reduce PCL (provision for credit losses)
- Created weekly & monthly reports with SAS to actively monitor operational execution, strategy performance, and shifts in customer risk profile to ensure accurate strategy implementation
- Automated third party performance reports generating process using Python, which saved team 10+ hours weekly
- Restructured collection strategy groups for post-write-off unsecured products using decision tree model to boost debt recovery
- Improved and enhanced re-age strategy by conducting controlled experiments to increase acceptance rate by 9% and reduced quarterly PCL by 4.8%

LeanTaaS Inc.

Charlotte, NC

Product Analyst, Team Lead

Dec. 2019 – Aug. 2020

Product Analyst

Dec. 2018 – Dec. 2019

- Performed mix of ad-hoc and structured analysis of clinic appointment and operational data with Python, and presented insights and visualization solutions (Tableau, Matplotlib, Seaborn) to product managers ensuring smooth product implementation
- Designed and created a scoring model in Python to flag data characteristics in order to select high-quality data and impute statistical estimates for missing data, which increased data accuracy by 30%
- Led PA team assist in customer data onboarding process to normalize datasets from various resources and EHR systems
- Created visualizations to monitor daily data sanity and troubleshoot data issues to ensure and sustain data quality and integrity
- Identified and established complex key matrixes to evaluate template and customer performance for monthly ROI report
- Collaborated with the engineering team to transform ad-hoc analysis to DASHIO platform backed with AWS Lambda & Step Function to drive product scalability, which saved product team 20+ hours weekly

China Securities Co., Ltd.

Shanghai, China

Summer Intern, Investment Banking Department

July 2017 – Aug. 2017

- Analyzed data to generate financial insights with SQL for an IPO project for Shanghai Micro Electronics Equipment Co., Ltd.
- Performed potential risk analysis including financial statements and social welfare to help the team carry out due diligence
- Conducted competitor analysis and in-depth research to predict company and industry growth trends for the next ten years
- Presented customized valuations to senior managers based on insights generated from data utilizing Tableau, Excel and PowerPoint

PKU Founder Life Insurance

Shanghai, China

Summer Intern, Product Development Department

May 2016 – June 2016

- Researched and optimized the policies for an existing critical illness insurance product concerning cancer
- Conducted competitive products analysis and communicated with a senior actuary on the price-cutting process

PROJECTS

Utilization Management, Cayuga Health Partners

Dec. 2021 – Present

- Collaborates with hospital operation teams and providers to identify potential opportunities to reduce healthcare costs while maintaining the quality of care
- Analyzes utilization rate of preoperative baseline laboratory studies prior to low-risk surgery using CHP SQL database

Wine Quality Prediction, Cornell University

Nov. 2021 – Dec. 2021

- Performed exploratory analysis for Kaggle dataset and identified correlated features and factors that affect the wine quality
- Applied different data sampling techniques such as SMOTE to solve data imbalance problems
- Predicted wine quality with 91% accuracy by applying support vector machines and random forest model

SKILLS

Computer: Python(Pandas, Numpy, Matplotlib, Scikit-learn, Gurobi) , SQL, SAS, Tableau, R, QuickSight, VBA, JAVA, TensorFlow, Hadoop, MapReduce, Git

Volunteer: DreamCorps (Vice President) 2014-2017, Madison House (Creating Asset Saving Hope, Income Tax Assistant)