QUAN XUE Associate Data Scientist III at GovTech

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EDUCATION

Georgia Institute of Technology M.S. Analytics

1 08/2018 - 12/2019

- GPA 3.8/4.0
- Coursework: Algorithms, Data Mining, Deep Learning, Machine Learning, Optimization, Time-series Analysis.

London School of Economics BSc. Economics

1 09/2015 - 06/2018

- First class honors with top 5% average score.
- Won all expenses paid scholarship to Washington D.C. to present final year economics thesis.
- Coursework: Advanced Econometrics, Behavioral Economics, Finance, Macro and Micro Economics.

TECHNICAL SKILLS

Certifications AWS Certified Cloud Practioner
AWS Solutions Architect Associate Azure Fundamentals
Technology (Airflow (AWS) (Kubernetes (Spark) Programming (R) (Python (Scala) (SQL)
Modelling Techniques CART Clustering
Neural net PCA Regression Time-series analysis

AWARDS

Master Data Science Competition

- Identified key growth areas and drafted business plan for major auto parts company using clustering techniques.
- Runner-up out of 30 teams winning \$5000 cash prize (2019).

▼ Collegiate Cup Hackathon

- Conceptualized state-wide strategy to improve technology access for under-served communities.
- **Georgia State Champion** in case category winning \$750 cash prize (2019).

INTERESTS

• Georgia Tech and LSE mentor advising juniors on career and course choices.

EXPERIENCE

Singapore Government Technology Agency (GovTech) Associate Data Scientist III, Tech Associate Programme

Dec 2020 - Present

♀ Singapore

- Designed and implemented fraud detection platform using graph network, saving taxpayers SGD\$X MM annually
- Worked on demographics movement visualization and analytics application processing 60+ GB of daily data
- Developed algorithm for generating map layer overlays based on user requirements and data constraints
- Led engagement projects with other government agencies exploring urban planning and COVID management
- Initiated time-series based anomaly detection in data pipeline
- Runner-up in company hackathon for passport photo adjustment application applying deep learning for background removal

Bridgewater Associates Investment Engineer

Westport, CT

- Conceptualized and implemented tool to detect data dependencies within investment systems, achieving >50% time saving.
- Designed data reliability and timeliness tests to ensure investment signal accuracy.
- Applied time-series and sentiment analysis for research on tracking gold demand

Chick-fil-A Graduate Innovation Intern

Atlanta, GA

- Spearheaded long-term development of an automated drive-thru voice ordering system applying natural language processing and AWS cloud technologies.
- Achieved >30% time saving and >40% improvement in customer engagement.

Pacific Investment Management Company (PIMCO) Client Data Science Summer Analyst

New York City, NY

- Modeled effects of macroeconomic factors on investment decisions to guide product strategy and revenue forecasting using time-series analysis (ARIMA, GARCH, VAR).
- Presented model viability to the CFO office and initiated long-term development of project.

Singapore Government Technology Agency (GovTech) Data Science Intern

Summer 2018

♀ Singapore

- Initiated and implemented Optical Character Recognition project for government media regulator identifying ISBNs from 10,000+ scanned documents using Tensorflow and Google Cloud.
- Accomplished >20x time saving (total of 4,000+ hours).