

# XUDONG ZHANG

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## EDUCATION & SKILLS

### University of Southern California, Marshall Business School

May 2018

- Master of Management Studies, Graduate Certificate in Business Analytics
- Relevant Coursework: Database Management, Machine Learning, Data Visualization, Fraud Analytics

GPA: 3.67/4.0

### Shanghai Jiao Tong University, School of Agriculture and Biology

Jun 2016

- Bachelor of Science in Bio-technology
- Majored in Bio-informatics and Bio-statistics

GPA: 3.43/4.0

### Technical Skills & Certificates

- Programing Skills: Python / R / Linux / Scala / Java
- Data Engineering: Spark / PostgreSQL / MongoDB / Hive / Kafka / Docker
- Cloud Technologies: AWS Certified Solution Architect Associate / Hortonworks Data Platform
- Finance Domain: CFA Level 1 Passed / Future & Options / Algo Trading (Quantoqian)

## WORK EXPERIENCE

### Bloomberg LP, Singapore

Jul 2018 - Now

#### Commodities Market Data Analyst

- Provide front end support(L1) and internal maintenance on Bloomberg Commodity functionalities and database, also work as Data DevOps with Engineering team in an agile workflow(L2)
- Built ETL pipelines for various structured/semi-structured datasets using the mix of Python, AWS S3, PostgreSQL and in-house tools modeled after Apache Kafka/Airflow, also contribute to Microservice Production codebase
- Wrote ad-hoc desktop Python tools (py frameworks: sqlite/kivy/pyinstaller/NSIS) to improve News team's workflow, eg. geo shipping data aggregation and simple paragraph generation
- Developed an interactive Python dashboard (pymongo/dash/plotly/ipywidgets) by processing/visualizing user session data in Commodity functionalities, gaining actionable insights for Content Acquisition and Marketing team

## OTHER TECH/FINANCE PROJECTS

### Automated Trading on China Stock Market (*live account*)

Python: talib/scipy/pandas/jqdata

- Apply a multi-factor strategy (smart money index and other financial report indicators) to 3000+ China listed stocks and monthly reposition the Top5 scored stocks
- 23.15% annualized return on back test (Jan2010 – Jun2019) and 32.10% on live account since July 2019 to year end

### Simulated Traffic Data Streaming Application ([github link](#))

Python, Shell, Scala: kafka/spark/sbt

- Wrote local Python/Shell script to simulate web traffic data, writing each line in a streaming fashion to a Kafka topic hosted on Ambari, Hortonworks Data Platform
- Used Kafka Connect and Spark Structure Streaming in Scala to read, process and finally write stream to a file sink

### Credit Card Fraud Detection ([app link](#))

R: caret/ggplot2/shiny/dplyr

- Identified fraud transactions with over 98.2% accuracy and 81.2% ARPRC on hugely imbalanced (0.17%) transactional data by implementing machine learning models including Logit, Random Forest, Neural Networks, etc
- Built a interactive modeling tool for card issuers to design the detection strategy based on different tolerance level

## EXTRACURRICULAR ACTIVITIES

### China House, Tanzania & Kenya

Jul 2014 - Dec 2014

#### Gap Year Volunteer / Project Assistant

- Conducted feasibility study on subsidized rural off-grid generation in Dar es salaam, Tanzania
- Trained 20+ Kenya small businesses on MS Excel data cleaning, macro recording and visualization on weekly basis
- Managed a successful crowdfunding worth of KES160,000 (~USD1,600) for a youth soccer team in Kibera slum via social media, upgraded their training gears and sponsored city tournaments for the next two years ([event video link](#))