

# Zhuofan Zhang

<https://github.com/Zhuofan-Zhang>

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## EDUCATION

**University of Maryland, Robert H. Smith School of Business(3.94/4.0)**

**Master of science**, Business Analytics

• Database Management(SQL), Big Data and AI technology (Hadoop, PySpark), Data Mining & Analytics(R), Data Process Python,

**East China Normal University, School of Physics**

**Bachelor of Science**, Physics, GRE (325), IELTS (7.5)

**University of California Los Angeles, Summer School Program(3.5/4.0)**

**Summer School**

• Introduction to Statistics(100A), Introduction to Mathematical Statistics(100B)

**College Park, MD, USA**

August 2019 - December 2020

**Shanghai, China**

September 2015 - June 2019

**Los Angeles, CA, USA**

August - September 2017

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## SKILLS

- Programming Languages: Scala, Java, TypeScript, JavaScript, Python, R, SQL, PySpark, HiveQL, SparkML,
- Analysis & Modeling: Statistical Modeling, Machine Learning, Deep Learning, Reinforcement Learning, A/B Testing
- Tools: AWS, Tableau, Databricks, Excel Solver, Excel Pivot Tables, Jupyter Notebook, R Studio, Microsoft Office

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## CERTIFICATIONS

- AWS Certified Developer – Associate (Validation Number: SHQHHSRJN1R1Q5SZ)
- CCA175 Spark and Hadoop Developer (Credential: 100-023-695)
- Tableau Desktop Certified Associate (Candidate ID: 1043591)

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## WORK EXPERIENCE

### Thoughtworks

Software Development Engineer

**Xian, China**

July 2021-Now

- Delivered billing functionalities and solution options for one of the biggest Accounting Software in Scala and TypeScript
- Helped team to remove delivery blocks by reaching out to other teams. Drove code change solution option and communication for other microservice managed by another team and get the refactor work done in Java.
- Drove data related work using Python and help improve workflow for data verification work within domain.
- Delivered 6 sessions within Team and 1 session within Account in 6 months after onboarding

### Tencent

Data Analyst Intern

**Online, USA**

November 2020-Jan 2021

- Analyzed 20 million user search data for Tencent news and generated user search log. Utilized NLP to track trending key words and plot word clouds for each day.
- Used and trained LightGBM to do user classification. Used and trained Logistic Regression Model to predict research amounts within the next ten hours.
- Used Tableau to Count the time period frequency of users' search behavior and calculate the graph of the frequency of each word.

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## SELECTED PROJECTS

### Restaurants Database and Recommendation Interface (R-Shiny, SQL, Tableau) (UMD)

**Sep – Dec 2019**

- Built a database of 50 restaurants around UMD campus with information from both Google Map and yelp using SQL. And ran 10 customized queries on the database for customers and potential restaurant owners.
- Visualized results in 7 Tableau sheets and organized them into one dashboard to present to users.
- Created a web interface and word clouds with R Shiny to facilitate quicker and matching searching.
- Project URL: <https://758y.shinyapps.io/Homepage/>

### Analysis of Relation Between Heart Disease and Osteoarthritis (R) (UMD)

**November 2019**

- Led a team of 6 to analyze a 3-year health dataset with 47999 observations and 614 attributes.
- Conducted regression analysis with agile methodology and applied survival rate regression model based on Cox Model and Kaplan-Meier Model.
- Presented social strategies to raise awareness of heart disease to six industry experts and scholars.

### Movie Gross Prediction Analysis (Machine Learning, scikit-learn, NLP) (UMD)

**Mar – May 2020**

- Cleaned and analyzed 5000 movies' data fetched from Kaggle with information both from TMDb and IMDb
- Multiple plots, Word Cloud and analysis conclusion are included in the data exploratory analysis.
- Achieved an overall 80% prediction accuracy implementing multiple Machine Learning with cross-validation to predict movies' gross including Linear Regression Classification, SVM, Classification tree, Bagging, Random Forest and AdaBoost Classifier.
- Created a modeling pipeline for the whole process and also automated user experience
- Project website: <https://github.com/Zhuofan-Zhang/IMDB-Movie-Analysis-Gross-Prediction>

### Stock Price Prediction and Trade Simulation (TensorFlow, Machine Learning) (UMD)

**Apr-May 2020**

- Stock performance analysis based on Technical indicators for individual stocks using Pfizer as an example.
- Stock price prediction are conducted using Machine Learning, Deep Learning and Neural Network models.
- Achieved up to 49% return ratio based on our stock analysis and trading recommendation with a complete trade simulation within our project.
- Project website: <https://github.com/Zhuofan-Zhang/Stock-Price-Prediction-and-Trade-Simulation>