



ANDREW MA

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Stanford University

B.S., Mathematical and
Computational Science, '13-'17
GPA: 3.77 | GRE 166/167/5.5



Peking University, '17-'19

M.S. Yenching Academy
Fellowship Program GPA: 3.74

Courses: Data Mining and
Recommender Systems, Natural
Language Processing, Computer Vision,
Graph Machine Learning, Optimization,
Advanced Computational Theory,
Statistical Inference, Stochastic
Modeling, ANOVA, Data Structures,
Computer Systems, Algorithms

Skills

Languages and Frameworks:

Python, Spark, PyTorch, Tensorflow

Exposure: C/C++, R, Scala,

Web/JavaScript, Java, C#

Tools:

Docker/K8S, SQL

Data Mining:

NLP (Text Mining, Deep Learning),
Statistical ML, Graph Algorithms,
RecSys, Optimization, Bandits, LSH

Awards

- USA Math Olympiad Qualifier (250 annually nationwide, **Four-Time**)
- Hawaii State Mathematics Individual Champion (First-ranked among all students in the state, honored by state governor, **Five-Time**)
- Yenching Academy Fellowship - Selective Postgraduate Full Scholarship at Peking University

WORK EXPERIENCE

Grab

Data Scientist

Grab | Singapore, 2019

Grab is SE Asia's first decacorn, valued at \$14 billion, with 65 million customers in 8 countries

- **PySpark** model training and ETL for promo targeting platform covering ~3M users, using S3, Hive, and Airflow, enabling **30x speedup and 10x scale** (100K to 1M users) through optimizations.
- Trained distributed **DNN/Tree-based** predictors for GMV and Take-Up-Rate (**Spark.ml, Tensorflow, XGBoost**) for promo targeting that improved revenue by 3% in A/B tests
- Project had buy-in and priority from Sr Mngt, consistent performance allowed scale from 100K to ~3M users

Machine Learning Engineer Intern

AInnovation | Beijing, 2018 (4 mo)

AInnovation is the AI-Enterprise spinoff of Kai-Fu Lee's Sinovation Ventures R&D Division



- Built recommender systems for an online retail client and a vending machine company using **Collaborative Filtering (FFM)** and **Random Forest/XGBoost tag-based machine learning** in Python

Data Engineer Intern

Bizvane | Shanghai, 2017 (4 mo)

- Data Validation and Pipelining in **Python, Scala**, and **R** to enable migration to Elasticsearch.

Software Engineer Intern

Gelber Securities | San Diego, 2016 (4 mo)

- Wrote productionized **C#** apps to compute collateral and attribute trade profit.

PROJECTS

Projects are interactive and hosted on my site
zhengyuanma.us

Co-Authoring With GPT-2

zhengyuanma.us/?#coauthoring_gpt2

Neural Image Style Transfer

[/?#style_transfer](https://zhengyuanma.us/?#style_transfer)

Neural Machine Translation

[/?#nmt](https://zhengyuanma.us/?#nmt)

Machine Learning Movie Profit Prediction

[/?#movie_profit_prediction](https://zhengyuanma.us/?#movie_profit_prediction)