

Tianjian Li

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EDUCATION

New York University - College of Arts and Sciences

09/2017-09/2021

• B.A. Joint Major in Mathematics and Computer Science

New York, USA

Major GPA: 3.378

Relevant Coursework: Operating Systems, Algorithmic Problem Solving, Theory of Probability, Combinatorics, Numerical Analysis, Machine Learning.

INTERNSHIP EXPERIENCE

Baidu Inc.

08/2021-Present

Machine Learning Engineer of Baidu Maps

Beijing, China

- Built a classification model on the influence of small paths on customers' driving experience with XGBoost.
- Optimized the current ranking model of routes by experimenting with two strategies: 1D-CNN and multi-head self-attention in modeling sequential trajectory data.
- Surveyed on Temporal Graph Neural Networks and their applications in traffic forecasting.
- Designed a model based on STGCN to further improve the performance of the ranking model especially for dodging traffic jams.

Project Repository: <https://github.com/truthbutcher/JamSTGCN>

Huawei Technologies Co., Ltd.

06/2020-08/2020

Software Developing Engineer of the Public Development Department

Beijing, China

- Refactored the code from MyBatis to Spring Data JPA and designed Junit-based unit tests to verify the data transmission performance in My Batis and Spring Data JPA.
- Researched compression algorithms and designed REST APIs based on GZIP and MLP to enable large files to be transmitted through microservices.

Perfect World Co., Ltd.

07/2017-08/2017

Data Analyst Intern of the Gaming Education Department

Beijing, China

- Collected information on customers who have an interest in game designing, and organized the data with SQL.
- Organized, summarized, and submitted research reports on institutions that provided game design programs.

PROJECT EXPERIENCE

PaddlePaddle Regular Challenge - 8/1035

11/2021 – 12/2021

- Implemented GCN with residual connection + Correct & Smooth for academic paper classification contest.

Project Repository: <https://github.com/truthbutcher/arxiv-competition>

Re-implementation of the STFGNN Model**12/2021-01/2022**

Re-implemented the STFGNN model described in <https://arxiv.org/abs/2012.09641> in paddlepaddle2.2.

Project Repository: <https://github.com/truthbutcher/STFGNN-PaddlePaddle>

Deep Learning Specialization**08/2021-09/2021**

Earned Deep Learning Specialization Certificate by DeepLearning.AI on Coursera.

EXTRACURRICULAR ACTIVITY

Alibaba Group**06/2021-07/2021**

Participant of the Global Dreamer Program

Hangzhou, China

- Took part in the discussions on scientific and technological development, public welfare, and the future of artificial intelligence with Alibaba employees.

Caoqiao Primary School**05/2018-07/2018**

Teacher of the Class Java Programming

Beijing, China

- Designed the basic Java courses, including programming fundamentals and object-oriented features.

AWARD & HONOR

- CAS Appeal Scholarship, New York University
- Silver Medal in Senior Group of the National Olympiad in Informatics in Provinces
- Gold Medal in Junior Group of the National Olympiad in Informatics in Provinces

SKILL

- **Programming/Scripting Languages:** (Proficient) Java, Python; (Familiar) C, C++, Shell, SQL, MATLAB, Unix Commands (grep, sed)
- **Frameworks and Tools:** Hadoop Streaming, Git, Spring Boot, Vim, LaTeX
- **Machine Learning Frameworks:** (Proficient) PaddlePaddle, PyTorch; (Familiar) Tensorflow, scikit-learn
- **Language:** English(GRE 333 AW 4.0, TOEFL 111), Mandarin(Native Speaker)