Manxueying Li

606 W 57th Street, New York, NY 10019
(347)-401-3978 | manxueying.li@columbia.edu | GitHub: @lmxy0212

EDUCATION

Columbia University New York, NY
M.S. in Computer Science Exp Dec 2021
- Relevant Courses: Machine Learning, NLP, Causal Inference, Cloud Computing and Big Data, AR/VR

New York University Brooklyn, NY
B.S. in Computer Science, **GPA: 3.9** May 2019
- Relevant Courses: Machine Learning, Database, Artificial Intelligence, Algorithms and Complexity Theory, Graph Theory, Probability and Statistics
- Honors: Deans List, Summa cum laude

TECHNICAL SKILLS

Languages: C/C++/C#, Python, Java, C#, MIPS, Verilog, HTML5/CSS, JavaScript, SQL

Frameworks: TensorFlow, Keras, scikit-learn, NumPy, SciPy, Matplotlib, OpenGL
Databases: MySQL
Other Tools: Git, Jupyter Notebook, Google Collab, Docker, TravisCI, PythonAnywhere, Latex, Markdown

PROFESSIONAL EXPERIENCE

LLSpace Shenzhen, CN
Project Developer and Game programmer Jun 2020 – Present
- Develop innovative educational product to help high school students improving their skills as computer scientists
- Lead over 100 volunteering team to design and program an open source anti-epidemic educational card game 'DisCover@cn'

New York University Brooklyn, NY
Teaching Assistant Jan 2019 – May 2020
- CS-UY 1122 Intro to Computer Science (Jan2020-May2020, Jan 2019-May 2019): Presented student with various topics in computer science, including basic front-end and back-end web development, basic knowledge in cyber security, etc. Hosted office hours 20hr/week
- CS-UY 3113 Game Programming (Sep2019-Dec2019): Instructed student for programming in C++ and OpenGL, including hosting office hours twice a week and grading homework
- CS-UY 2214 Computer Architecture (Sep2019-Dec2019): Coordinated with 3 other TAs to hold 3 recitations every week -- reviewed important topics, guided students with programming in Verilog, and gave out quizzes. Hold office hours 10hr/week

Tencent Shenzhen, CN
Algorithm Engineer Intern at Vision Algorithm Team May – Aug 2019
- Implemented region-based segmentation (threshold segmentation) and tuning multiple thresholds
- Improved edge detection segmentation by using different weight matrixes
- Analyzed and presented to team members about result of comparing image matching used by JingDong and Ali

PROJECTS

"Agent Based Modeling for Capital Market" with professor Eugene Callahan Sep 2019 - present
- Research with professor Eugene Callahan on Austrians Business Cycle Theory and capital structure
- Established multiple agent-based models that can be run on web API to represent various trading behaviors such as distribution of capitals, price bidding and future expectation between resource holders and entrepreneurs according using python

"Machine Learning Project: Investigating the factors that drives Airbnb Rentals to be popular" Jan - May 2020
- Built machine learning model to predict the popularity of the Airbnb with given numerical factors
- Utilized bag of words for preprocessing descriptive data and implemented logistic regression, SVM, and neural network for binary classification of how description of the host affects popularity of Airbnb
- Wrote 6 pages project report
- Visualized the approach and result for presentation

"Database project: Finstagram" Sep - Dec 2019
- Collaborated with another team member and established a web application for photo sharing, allowing users to share and view photos
- Built a back-end database for storing data of photos posted and user information