

Lingjia Li

ll587@cornell.edu
Ithaca, NY | (607)262-4399 | <https://lipga.github.io/>

EDUCATION

Cornell University

MPS in Information Science

August 2021 - Present

College of Computing and Information Science, GPA: 4.2/4.3

Shanghai Jiao Tong University

B.Eng in Computer Science and Technology (IEEE Honor Class)

September 2016 - June 2020

Department of Computer Science and Engineering, GPA: 3.9/4.3 (Top 15%)

B.A in Animation (Minor)

January 2018 - June 2020

School of Media and Communication, GPA: 4.1/4.3

SKILLS

Programming Languages

Python, C/C++, JavaScript, SQL, TypeScript, Java, HTML/CSS, MatLab

Tools & Technologies

Linux, UNIX, Azure, Node.js, Angular, Django, D3.js, web.py, Flask, IBM Db2, MongoDB, Git, Wherescape Red, Tableau, PyTorch, Jupyter, JIRA, Vim, REST

ACTIVITIES

Activities

CIDA Hackathon Grand Societal Prize

2022 Digital Agriculture Challenge sponsored by Microsoft

ACM 2018 Turing Celebration Conference Volunteer

Interests

Volleyball (National 1st Class Athlete), Digital Media, Painting, Photography

COURSEWORK

Design and Analysis of Algorithm

Database System Technology

Data-driven Web Applications

Introduction to Machine Learning

Software Engineering

Cloud Computing

Parallel and Distributed Programming

Advanced Computer Game Architecture

Crowdsourcing and Human Computation

(Research Asst. & Teaching Asst.)

EXPERIENCE

PepsiCo, Inc.

August-December 2021

Data Scientist & Machine Learning Engineer (Contract)

- Performed time series analysis and built predictive models to assess future product material waste, presented weekly updates based on clients' feedback
- Developed Tableau dashboards to provide insights and waste reduction tips

Nan Yang High School

August 2020-March 2021

Artificial Intelligence Teacher

- Developed AI course resources (materials, activities and software programs) and collaborated weekly with teachers, teaching researchers and principal
- Mentored 90 students ML techniques (Supervised Learning, Perceptron, Neural Network, etc.) through intuitive instruction & learning activities design

Morgan Stanley

July-September 2019

Software Engineer (Corporate Funding Technology)

- Developed the corporation's knowledge management system for resource indexing and linkage through the Agile (Scrum) development process
- Implemented file uploading and storage, content management system, search engine and document recommendation with Java, Angular, Typescript, IBM Db2, RESTful API and Elasticsearch

PROJECTS

Cornell CIT Service Management Dashboard

- Gathered clients' requirements on TDX tickets and Ring Central service data
- Developed, instantiated and populated dimensional data model using SQL, WhereScape through ETL and BI/DW process and built Tableau dashboards

Monitoring Negative Sentiment-Related Events on GitHub

- Developed Kleinberg, FNN and Linear SVM models to dynamically detect and classify negative sentiment-related events, achieved average accuracy of 78%
- Design and built an online sentiment monitoring dashboard with Django
- First-authored paper accepted and presented at APSEC 2021

Sentiment Analysis in Collaborative Open Source Software Development

- Extracted sentiments from GitHub Issue comments, conducted correlation analysis, causality test and dynamic social network analysis and visualized the results using NLTK, SciPy, Pandas, NetworkX, Matplotlib, Gephi and Highcharts
- First-authored paper accepted and presented at SEKE 2020

Online Perfume Search Engine

- Crawled and integrated perfume item information from Taobao and Nosetime, developed a web search engine with web.py on Linux Ubuntu, implemented multi-field text search and image search with PyLucene and OpenCV

Quantitative Index Trading Prediction

- Built LSTM and LightGBM models to predict mean value of middle price based on order book data with PyTorch (Rank Top 20% in Kaggle competition)

Voice Navigation Application for Blind People

- Implemented real-time navigation through vibration, speech recognition and synthesis utilizing Java, iFLYTEK and Baidu Maps API in Android Studio