

Lingjia Li

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EDUCATION

- Cornell University** Ithaca, New York
• *MPS Information Science GPA: 4.2/4.3* August 2021 - Present
- Shanghai Jiao Tong University** Shanghai, China
• *B.Eng in Computer Science and Technology (IEEE Honor Class) GPA: 3.9/4.3* September 2016 - June 2020
- Shanghai Jiao Tong University** Shanghai, China
• *B.A in Animation (Minor) GPA: 4.1/4.3* January 2018 - June 2020

SKILLS SUMMARY

- Languages:** Python, C/C++, JavaScript, SQL, TypeScript, Java, HTML/CSS, MatLab, R
- Frameworks:** Flask, Angular, Django, web.py, NodeJS, D3.js, Vue.js, Pandas, Scikit, NLTK, PyTorch
- Tools:** REST, Elasticsearch, Tableau, Docker, GIT, JIRA, MySQL, IBM Db2, MongoDB, Wherescape Red
- Platforms:** Linux/Unix, Web, Windows, Azure

EXPERIENCE

- Avalara**
• *Product Manager (Contract)* January 2022 - Present
 - **Product and Market Analysis:** Met with clients weekly, analyzed market sizing for US Tax Research product, forecast industry growth rates, and projected customer willingness to pay.
- PepsiCo**
• *Machine Learning Engineer & Data Scientist (Contract)* August 2021 - December 2021
 - **PCL Waste analytics:** Performed time series analysis and built predictive models to assess future product material waste, presented weekly updates based on clients' feedback.
 - **Dashboard Visualization:** Designed and developed Tableau dashboards to visualize data and business insights.
- Nan Yang High School**
• *Artificial Intelligence Instructor (Full-time)* August 2020-March 2021
 - **Course Design and Development:** Developed AI course resources (materials, activities and software programs), presented demo lessons weekly to principal, teaching researchers and other instructors and revised based on feedback.
 - **Instruction:** Mentored 90 students ML techniques (Supervised Learning, Perceptron, Neural Network, etc.) through intuitive instruction & learning activities design.
- Morgan Stanley**
• *Software Engineer (Internship)* July 2019 - September 2019
 - **Content Management System Development:** Developed and maintained 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

- **Stock Price Financial Database:** Designed and developed a real-time stock price database using Azure Microservices, Flask, and Yahoo API. Implemented data streaming into CosmosDB, evaluated and improved the scalability and performance of the data pipeline infrastructure.
- **Switch Witch (Technical Lead):** Developed a 2D iOS strategy game using C++ in CUGL. Lead programmers to implement game mechanics and animations, integrated game UI using SceneGraph through close collaboration with UI/UX designers.
- **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:** Applied Kleinberg, FNN and Linear SVM models to dynamically detect and classify negative sentiment-related events, achieved average accuracy of 78%. Designed and implemented a sentiment monitoring dashboard with Django. First-authored paper was 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 was presented at *SEKE 2020*.
- **Online Perfume Search Engine:** Crawled and integrated item data 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 10% in Kaggle competition).

ACTIVITIES AND AWARDS

- Winner of Grand Societal Prize - 2022 CIDA Hackathon sponsored by Microsoft and Bayer
- Volunteer - ACM 2018 Turing Celebration Conference
- Interests - Volleyball (National 1st Class Athlete), Photography, Digital Media, Painting