

VICKY WANG

Graduating in May 2021 | 484-929-7264 | vickywangnyu@gmail.com | [Linkedin](#) | [Github](#) | [Website](#)

EDUCATION

New York University <i>Master of Science in Information Systems</i> <i>Leonard N. Stern School of Business, Courant Institute of Mathematical Sciences, GPA: 3.6/4.0</i>	New York, NY, U.S. May 2021
University of International Business and Economic <i>Bachelor of Information Systems</i> <i>School of Information Technology and Management, GPA: 3.8/4.0</i>	Beijing, China May 2019

WORKING EXPERIENCE

Android Developer <i>Kotlin, Java</i> <i>CommunityApp</i>	Dec 2020 – Present New York, NY, U.S.
<ul style="list-style-type: none">Community App is a group management platform following the MVVM pattern with AWS supporting proprietary Android, iOS and Web usersImplemented and tested UI, activities, adapters, classes for new features like group feed managing, poll posting, message handling on Android StudioExtensively utilized Android Architecture components like the ViewModel, DataBinding, LiveData and technologies like Retrofit, Coroutines and RESTful APIsUsed Git as the project version controller and Firebase for feature integration with web application	
NLP Engineer <i>Python, SQL</i> <i>Impending Bloom</i>	June 2020 – Sept 2020 New York, NY, U.S.
<ul style="list-style-type: none">Actively developed the political ideological model for Corporate Social Responsibility description, by using NLP Tokenization, Vectorization, Terminology extraction, Topic modeling and LDA visualizationWorked on interactive dashboard for building labeled Inter-topic Distance Map and showing top N topic relevant terms using LDA visualization tool pyLDAvisPerformed t-SNE dimensionality reduction in order to visualize texts with assigned human-interpretable labels using Python and SQLConferred with senior data scientists, full stack developers to review word progress at regular intervals, ensuring project deliverables are completed in-time and to-standard using Trello	
Data Scientist <i>Python, SQL, SPSS</i> <i>Ernst & Young</i>	Mar 2019 – May 2019 Beijing, China
<ul style="list-style-type: none">Predicted effectiveness of advertising strategies through pricing models (CPS, CPC etc.) and XGB model applied to data stored in SQL ServerConducted in-depth research on profitability and operation of the Web Advertising industry, providing analytical insights into customers, publishers and marketers' decision process	
BI Development Engineer <i>HTML, CSS, Python</i> <i>Cummins Inc.</i>	Apr 2018 – Dec 2018 Beijing, China
<ul style="list-style-type: none">Developed an interactive performance visualization dashboard to show integrated financial, marketing, sales reports using HTML and CSSAssisted senior sales managers and data scientists to improve sales forecast accuracy to 87% by training LSTM model on sales data over 5 yearsDesigned a highly available data store solution (MySQL + Memcached) to support automated consolidation of more than 40K rows data	

TECHNICAL SKILLS

- Languages:** Python, Java, SQL, Kotlin, HTML/CSS
- Developer Tools:** Git, Visual Studio Code, PyCharm, Android Studio, Google Cloud Platform, Oracle
- Libraries:** Tensorflow, Pytorch, Gensim, NLTK, Regex, NumPy, Matplotlib, BeautifulSoup, Socket
- Others:** Tableau, RapidMiner, Visio, SAP, Wireshark, Agile

NLP Based Family Oral History Retrieval System | *Java, JavaScript, Python, SQL* Nov 2018 – Mar 2019

- * Extracted the key words by implementing TF-IDF and extended the keyword list by finding similar words with Word2Vec
- * Computed the most relevant oral history pieces in the corpus by using a pre-trained and fine-tuned BERT model and comparing cosine similarity of text vectors based on keywords
- * Set up with Baidu Map SDK to implement an Android APP to mark locations of introduced kinship

Smart Locker & Package System | *SQL, VB.NET* Nov 2018 – Jan 2019

- * Performed analysis for all stages of the Systems Development Life Cycle such as collecting database design requirements, data modeling, conducting UML object-oriented design
- * Independently developed database objects includes tables, views, triggers, procedures, etc.
- * Wrote complicated queries using aggregate functions, joins, analytical functions, subqueries, etc. to provide real-time data from MS SQL for client and UI development supporting
- * Organized Scrum meetings and managed project deliverables with waterfall and agile methodology

SUMMARY

- 4+ years of academic and professional experience in analysis, design and development of business information systems and Android applications
- Adept in use case analysis, process modeling, data modeling, UML design and full stack implementation with extensive use of Python, SQL, Kotlin, Java, C and Linux shell scripting with platform of Jupyter Notebook, Pycharm, Visual Studio, Eclipse, Node.js and Docker
- Strong implementation skills in data query, data migration, data analysis, machine learning, natural language processing and data visualization
- Solid theory background for data communication and networks with packet capturing and socket programming capability
- Working on cloud and Linux work environment like Google Cloud Platform, Docker, Git and Parallel computing for high performance analytical projects
- Experience in fin-tech, consulting and automotive industries and exposure to various business units
- Expert in data structures and fundamental algorithms