VICKY WANG

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EDUCATION

New York University | *Master of Science in Information Systems*   New York, NY, U.S.
Leonard N. Stern School of Business, Courant Institute of Mathematical Sciences, GPA: 3.6/4.0   *May 2021*

University of International Business and Economic | *Bachelor of Information Systems*   Beijing, China
School of Information Technology and Management, GPA: 3.8/4.0   *May 2019*

WORKING EXPERIENCE

Android Developer | *Kotlin, Java*   Dec 2020 – Present
CommunityApp   *New York, NY, U.S.*

- Community App is a group management platform following the MVVM pattern with AWS supporting proprietary Android, iOS and Web users
- Implemented and tested UI, activities, adapters, classes for new features like group feed managing, poll posting, message handling on Android Studio
- Extensively utilized Android Architecture components like the ViewModel, DataBinding, LiveData and technologies like Retrofit, Coroutines and RESTful APIs
- Used Git as the project version controller and Firebase for feature integration with web application

NLP Engineer | *Python, SQL*   June 2020 – Sept 2020
Impending Bloom   *New York, NY, U.S.*

- Actively developed the political ideological model for Corporate Social Responsibility description, by using NLP Tokenization, Vectorization, Terminology extraction, Topic modeling and LDA visualization
- Worked on interactive dashboard for building labeled Inter-topic Distance Map and showing top N topic relevant terms using LDA visualization tool pyLDAvis
- Performed t-SNE dimensionality reduction in order to visualize texts with assigned human-interpretable labels using Python and SQL
- Conferred 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 | *Python, SQL, SPSS*   Mar 2019 – May 2019
Ernst & Young   *Beijing, China*

- Predicted effectiveness of advertising strategies through pricing models (CPS, CPC etc.) and XGB model applied to data stored in SQL Server
- Conducted 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 | *HTML, CSS, Python*   Apr 2018 – Dec 2018
Cummins Inc.   *Beijing, China*

- Developed an interactive performance visualization dashboard to show integrated financial, marketing, sales reports using HTML and CSS
- Assisted senior sales managers and data scientists to improve sales forecast accuracy to 87% by training LSTM model on sales data over 5 years
- Designed 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

Project Experience

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