XINYI FENG

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Education

Northeastern University　　　　　　　　　　　　　　　　　　　　　　**Jan. 2022 – May. 2024(expected)**
Master of Science in Computer Science—GPA: 4.0/4.0　　　　　　　　　　　　　　　　　*San Francisco, CA*

New York University　　　　　　　　　　　　　　　　　　　　　　　　　**Sept. 2017 – Dec. 2018**
Master of Arts in TESOL—GPA: 3.83/4.0　　　　　　　　　　　　　　　　　　　　　*New York City, NY*

Relevant Coursework

- Data Structures
- Software Methodology
- Algorithms Analysis
- Object-Oriented Design
- Artificial Intelligence
- Internet Technology
- Systems Programming
- Mobile Development

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, Go
Developer Tools: PyCharm, IntelliJ, CLion, Docker, MySQL, SQLite, Firebase, Android Studio
Frameworks: Django, Spring, Pytorch, Node.js, Thymeleaf, JUnit, Mockito, Hibernate, Struts
Platforms: Linux, macOS, Windows, Chrome, AWS, GCP, Azure, Alibaba, Jupyter Notebook

Projects

Yummy Food App (Github) | *Java, Android Studio, Firebase*　　　　　　　　　　　　　　**July 2022**

Built an Android application of food-topic social media to support pic&video sharing.

- Developed back-end to support Create, Read, Update, Delete pictures and videos.
- Integrated Firebase for the user authentication, data storage and management.
- Optimized the page loading algorithm of the magazine contents that reduces the loading time to less than 1 sec by giving download priority to the most recently-displayed pages.
- Introduced famous Android libraries such as RxJava, Retrofit, Dagger, and Butterknife to all Android projects to make testing easier and maintain the code clean.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Where to live in San Francisco (Github) | *Python, Spark, Google Cloud Console, Jupyter Notebook*　　**March 2022**

Built a web application for recommending idea living place based on machine learning model.

- Developed a web crawler using Python library Scrapy to obtain raw house sources from Craigslist and Zillow.
- Utilized Google Distance Matrix API to calculate distance, commute time and cost of public transports.
- Trained Matrix factorization based model using fetched data crime data, house prices, transport information.
- Designed a pipeline to filter desired living places via PySpark and Spark Streaming.
- Scheduled a recurring Python crawler script on Google Cloud for daily data update by Cron job service.
- Presented the Mapbox-based map with customized houses lists using Folium Library and leaflet.js.

Experience

Hao Lang Education　　　　　　　　　　　　　　　　　　　　　　　　**Oct 2019 – Jan 2022**
Co-Founder & CTO　　　　　　　　　　　　　　　　　　　　　　　　　　　*Shanghai, China*

Led a developer team to launch a company-scoped website for recording students' academic performance in Java.

- Designed back-end modules including searching, posting, reviewing, replying and evaluating their daily study report.
- Implemented a highly customized Web user interface in jQuery and Ajax.
- Established the database in MySQL and automatically backup the database to Alibaba Object Storage Service.
- Utilized Tableau to visualize students' data and helped the teacher to make teaching plans.
- Wrote Automation tests in JUnit5 and Mockito and reached code coverage of 99%.

TongJi University　　　　　　　　　　　　　　　　　　　　　　　　　**March – Aug 2021**
Visiting Scholar & Co-Editor　　　　　　　　　　　　　　　　　　　　　　　*Shanghai, China*

Co-editing textbook: 21st Century College English for STEM Students.

- Collaborated with other scholars in the Foreign language school, Applied linguistic department to draft the textbook
- Searched, evaluated and collected tech-related texts using pagerank algorithm.
- Designed a script to auto-check language errors in textbook.