

Jian Gao

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EDUCATION

Columbia University

Master in Computer Science

New York City, NY

Expected Dec 2022

Ohio State University

B.S. in Computer and Information Science

Columbus, OH

May 2020

Major: Computer Information Science

Minor: Mathematics

GPA: 3.915

Honors: Deans List, Ten-Hwang Lai Computer Science Scholarship, Summa Cum Lauda student

WORK EXPERIENCE

Zhejiang Geely Holding Group

Internship

Hangzhou, CN

Dec 2020 - Mar 2021

- Conducted basic data cleansing for department using MySQL
- Tested algorithms on Baidu's BML machine learning platform using Python

Microsoft

Intern to Principal Technical Evangelist

Guangzhou, CN

Jul 2019 - Aug 2019

- Designed an automatic response chatbot for a loan company based on Microsoft's Azure Bot Frame
- Implemented, trained and tested Microsoft's Luis and Question & Answer Cloud dialog service online
- Created logical algorithm to control states of dialogs in C# combining Cloud Services

TECHNICAL SKILLS

- Languages: Python, Java, MySQL, JavaScript, Ruby
- Other Tools: Git, IBM's Watson Cloud Service, Microsoft's Azure Cloud Service

ACADEMIC PROJECTS

Individual Project: Core Interpreter of Java

Aug 2019 - Dec 2019

- Constructed Java singleton class Tokenizer to tokenize program written in CORE, and store tokens and token kinds into array
- Implemented Parser took tokens in order, and parsed different tokens and executed
- Formatted CORE programs while parsing by printer to print programs into normal Java codes

Team Leader : Music Chatbot based on IBM's Watson Assistant

Aug 2019 - Dec 2019

- Applied IBM's Watson Assistant, Speech to Text, Text to Speech and Natural Language Understanding cloud services
- Formed connection between HTML/JavaScript Website with Python data management by socket programming
- Analyze users' emotions and interests by adding, training and testing data in Natural Language Understanding service
- Managed states of dialogs of IBM's Watson Assistant by creating different intents and entities

Team Leader: Two versions of Card Set Game

Jan 2019 - May 2019

- Applied Object-Oriented Programming to realize Card Set Game using Ruby by built classes for cards and sets
- Rewrote Card Set Game in JavaScript, displayed it by utilizing CSS and HTML and added new functions
- Optimized algorithms to help game run faster and generated more optimal hints for users

Individual Project: Implement Database system using Python

Sep 2021 - Nov 2021

- Accomplished methods to define rows, columns and indexes specify metadata for a simple database using Python
- Built a rudimentary MySQL engine capable of performing SELECT statements and two kinds of JOINS with different performances
- Loaded data from CSV files by Python, and stored data into dictionaries to realize a simple database

Team Member: Recommendation System for Travelers to New York City

Sep 2021 - Present

- Collected data from Twitter, Google Map Platform API, New York Crime Dataset from Kaggle
- Plan to utilize Spark Streaming to get recent tweets, and TextBlob to analyze sentiments to get a rating of each place
- Applied Socket Programming to transfer data between front-end webpage and back-end processing