

Chuhan Xu

FRONT-END SOFTWARE ENGINEER · DATA ANALYST · NEW GRADUATE

☎ (+1) 412-626-0648 | ✉ xuchuhan777@gmail.com | 📱 ChuhanXu | 🌐 chuhan-xu-b68415191

Summary

I was graduated in 2021 and currently work as a Software Engineer in Bioinformatics Department at University of Pittsburgh. There is a lot of data behind every event in the world, I am committed and enthusiastic in making these data tell their own stories by reasonable data analysis. Driven by great challenges and learning opportunities, I look forward to combining Data Work with Interactive Web Development to make data analysis easier and interesting in daily life.

Work Experience

Bioinformatics Department, University of Pittsburgh

Pittsburgh

SOFTWARE ENGINEER

Dec. 2020 - PRESENT

- Simplified data analysis process and reduced the plotting time to 2/3 of the original time by designing interactive data visualization tool DataCharts using **Flask** and **plotly**
- Improved user experience by adding voice functions with **pyttsx3** to iMedbot which is designed to compute breast cancer recurrence probability according to users' inputs
- Achieved an increase of AUC from 75% to 84% in terms of prediction of breast cancer recurrence by implementing **Grid search strategy** to find the best combination of hyper parameters with **Keras**

IT Department, Squirrel AI Adaptation Education

Xiangyang

INFORMATION TECHNOLOGY INTERN

Jun. 2019 - Aug. 2019

- Complimented by the department leader because of the outstanding cooperation with the back-end software engineer to finish students self-checking score system and progress analysis report using **PostgreSQL**
- Updated and created related course resources on the main page according to requirements from users and internal employees

Big Data Analysis Lab, Hubei University of Economics

Wuhan

RESEARCH ASSISTANT

Sep. 2017 - May. 2019

- Published paper "**Female Entrepreneurial Mode at the Internet Era-Based on the Web Celebrity**" on the Journal of Hubei University of Economics (*Humanities and Social Science*)
- Developed a **crawler** to acquire raw data such as followers' number and daily comments from different marketing platforms

Projects

Skiing Tickets Cooperation Platform (SKIJoin)

Pittsburgh

INSTRUCTION: A WEBSITE SYSTEM TO HELP SKIERS PURCHASE TICKETS WITH MUCH LOWER PRICES IN A GROUP FORMAT

Feb. 2021

- Enhanced code reusability at least 10% by using hook function **useState** to complete the front-end interfaces of SKIJoin
- Realized transitions between different pages including Search Page, Discussion Page, Profile Page using **React-Router-Dom**
- Implemented **Material-UI** and **Bootstrap** to create an awesome user interface of the main page and search page

Yelp Restaurant Reviews Retrieval (TopYview)

Pittsburgh

INSTRUCTION: A YELP REVIEW KEY-WORD INFORMATION RETRIEVAL SYSTEM FOR RESTAURANTS IN PITTSBURGH

Dec. 2020

- Extracted and formatted more than 5000 reviews in Yelp using python web crawler **Beautiful Soup**
- Ranked top 10 related restaurants using **Statistics Language Model** and **Pseudo Relevance Feedback**
- Designed and implemented the front-end interfaces including the main search page and the restaurant instruction page using **Spring Boot**

Skills

Programming Languages	Python, JavaScript, R, Java, GO, HTML, CSS, Latex
Environments and Frameworks	Flask, Django, React.js, Node.js, Tensorflow, Keras, AWS
Tools and Databases	Git, Docker, MySQL, MongoDB, PostgreSQL

Education

University of Pittsburgh

Pittsburgh, PA

M.S. IN INFORMATION SCIENCE 3.8/4.0

Aug. 2019 - Apr. 2021

- Database, Web Technologies, Information Retrieve, Cloud Computing, Machine Learning, Human Interaction Design

Honors & Awards

- | | | |
|------|---|-----------------|
| 2021 | First Prize in General Category , SteelHacks Website Design Contest | Pittsburgh, USA |
| 2016 | National Second Prize , China Undergraduate Mathematical Contest in Modeling | Wuhan, CHN |