Chuhan Xu

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Objective

➤ Seeking for Full-time Software Engineer Position

Work Experience

➤ **Bioinformatics Laboratory in University of Pittsburgh(part-time)**   *Dec. 2020 - Present*

Research Assistant

- Designed deep learning algorithm to improve the AUC by 3% of binary search in prediction of Recurrence and metastasis of breast cancer with the instruction of the professor
- Implemented deep learning model using **Pytorch**, **Tensorflow**, **R** and optimized the hyperparameter by thousands of experiments
- Deployed deep learning model in third cloud platforms like **AWS** and **Paperspace** to enhance computing efficiency
- Collected the final experiment results with designed format for comprehensive display

➤ **Information Technology Department, Squirrel AI Adaptation Education**   *Jun. 2019 - Aug. 2019*

Information Technology Intern

- Translated business needs into reusable functional code or libraries for future use according to the UI design requirements
- Cooperated with backend software engineer seamlessly to achieve pages interaction and ER model for database
- Updated and created related course resources on the main page according to requirements of users and internal employees

➤ **Big Data Analysis Laboratory**   *Sep. 2017 - May. 2018*

Research Assistant

- Researched on Female Entrepreneurial Mode at the Internet Era--Based on the Web Celebrity
- Designed questionnaire for detailed information of web celebrities and distributed it online and offline
- Developed a crawler to acquire raw data such as followers' number and daily comments from different marketing platforms
- Published research on the Journal of Hubei University of Economics (Humanities and Social Science)

Project Experience

➤ **Skiing Tickets Cooperation Platform** *Core Member*   *Feb. 2021 - Feb. 2021*

Introduction: A website system to help skiers purchase tickets at much lower prices in a group format

- Completed the front end of SKIJoin using functional setState of **React.js** to improve code efficiency
- Achieved Search Page, Discussion Page, Profile Page to satisfy user's requirements using **React-Router**
- Implemented **Material-UI** and **Bootstrap** to create awesome user interface for the main page and search page
- Deployed our project SKIJoin with **Firebase Hosting** and accomplished log in part with **Firebase Authorization Roles**

➤ **Yelp Restaurant Reviews Retrieval** *Team Leader*   *Oct. 2020 - Dec. 2020*

Introduction: A yelp review key-word information retrieval system for restaurants in Pittsburgh

- 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 UI interface including main search page and restaurant instruction page using **Spring Boot**

Skills

- **Languages:** JAVA, Python, JavaScript, HTML, CSS, R, LaTeX
- **Environment and Framework:** Node.js, Flask, Django, Vue.js, Tensorflow, Pytorch, React.js, AWS
- **Systems and Tools:** Linux, Windows, MySQL, MongoDB, PostgreSQL, Git

Educations

University of Pittsburgh   *Aug. 2019 – Present*

M.S. Information Science

Zhongnan University of Economics and Law (Double Degree)   *Sep. 2017 - Jun. 2019*

B.S. Information Computing Science

Hubei University of Economics   *Sep. 2015 - Jun. 2019*

B.S. Information System Management

Awards

- Rewarded with **National Second Prize** in China Undergraduate Mathematical Contest in Modeling
- **First Prize in General Category** of 2021 SteelHacks Website Design Contest