Chuhan **Xu**

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**Objective**

➢ Seeking for Full-time Software Engineer Position

**Work Experience**

➢ **Bioinformatics Department, University of Pittsburgh *Jan. 2020 - Present***

*Systems Programmer II*

* Implemented different machine learning algorithms including neural network to improve the test AUC of binary classification in prediction of recurrence and metastasis of breast cancer
* Optimized neural network layer structure of deep learning models according to results from thousands of grid search experiments using scikit-learn to improve final test AUC by 5%
* Analyzed the relationships between different parameter combinations of deep learning model and final test AUC results
* Achieved a breast cancer chat robot that can provide the probability of recurrence according to the best model researched by having normal conversations with patients using Python Flask

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

*Information Technology Intern*

* Designed and optimized a quiz system by adding more personalized prompts and face recognition to improve user experience
* Cooperated with backend software engineer seamlessly to finish students self-checking score system and progress analysis report
* 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 hook function **useState** to improve code efficiency
* Achieved Search Page, Discussion Page, Profile Page to satisfy user’s requirements using **React-Router-Dom**
* Implemented **Material-UI** and **Bootstrap** to create an 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 the main search page and restaurant instruction page using **Spring Boot**

**Skills**

* **Languages**: Python, Java, JavaScript, HTML, CSS
* **Environment and Framework**: Flask, Django, TensorFlow, Keras, Node.js, React.js
* **Systems and Tools**: Linux, Windows, Github, AWS, MySQL, MongoDB, PostgreSQL

**Educations**

**University of Pittsburgh *Aug. 2019 – Present***

M.S. Information Science (3.788 / 4.0)

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

**Awards**

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