**Xiaoxuan Lu**

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**EDUCATION**

**University of Southern California (Viterbi School of Engineering) Los Angeles, CA, USA**

**Master in Analytics 08/2021---05/2023**

**Relevant Coursework:** Predictive Analytics, Optimization Methods for Analytics, Data mining, Data management, Performance Analysis with Simulation, Data Analytics Consulting, et.al

**University of British Columbia Vancouver, BC, Canada**

**BSC in Computer Science 09/2017---07/2021** **Relevant Coursework:** Software Engineering, Computer Hardware and Operating Systems, Intelligent Systems, Computer Vision, Relational Databases, Functional and Logic Programming, Linear Algebra, Calculus, et.al

**LEADERSHIP AND INVOLVEMENT**

**USC course ISE535 Data Mining** Los Angeles, CA

Leader of course project 11/2021--12/2021

* To push the project forward, I communicated with my teammates and our professor actively, I concerned about the progress of teammates and scheduled team meetings to discuss the next step, I also finished my part early so that they can use the result from EDA. As the result, I did EDA report and help teammates’ modeling, our work was praised by our professor as the best one that he had ever seen in this course.

**ACADEMIC PROJECTS (see more on my GitHub)**

**Recommender system for Customer Churn in Telecom** 2021 Fall

* Reporting EDA of our dataset, I explored data with univariate and bivariate analysis, finally did a presentation to show result.
* Helping with modeling in R script, my team used Logistic Regression, Random Forest, and other ML models to figure out why customer attrition happened and how to prevent it, did a presentation to show what we got from models.

**UBC course search system** 2020 Spring

* Getting data from zips (json) and store them in template datasets, I used Async logic in Typescript, passed tests before using.
* Analyze (filter/group/sort) data based on the queries gotten from front-end, I translated the information gathered from front-end into the correct data structure (queries) then I used logics (No SQL) to analyze data in Typescript, passed all tests in the end.

**Game Platform** 2020 Fall

* Modifying a data frame for the game platform, design keys for the ER diagram, complete ER diagram firstly.
* Writing analysis progress in No-SQL and SQL ways, I wrote logics in Java to realize No-SQL analyzing and modified SQL queries p/sort) data based on the queries gotten from front-end, the system can analyze the dataset well in the end.

**SKILLS AND INTERESTS**

* Languages: Mandarin (Native speaker), English (intermediate level)
* Technical: Proficient in Python, R, SQL, Java. Frequent user of HTML/CSS, JavaScript, TypeScript. Familiar with MATLAB, C, C++
* Skills: Algorithm; Communication: oral presentation and writing, telling stories; Data: data mining, data management, predictive Analytics, familiar with packages: pandas, scikit-learn (ML); Data Visualization: Tableau; GitHub: Merge into master, working on a branch; Machine learning models; MS: Excel and PowerPoint; Problem-solving abilities; Programming: SOLID (SRP, Open/Close, LSP, DIP), design pattern, Object-Oriented programming; Web Designing.
* Interests: Swimming, Skiing, Video games like League of Legends, Cooking.

**WORK EXPERIENCE**

2021-2022: **University of Southern California, Los Angeles, CA**

01/2022 —Present ISE535 Data Mining Teaching Assistant(class size: 142)

Grading students’ homework and projects in ISE535 and answering questions during office hours. Helping professor prepare materials for courses, I searched 5 datasets and 2 were used in assignments.

11/2021 —Present Web Designer

Designed and wrote 4 webpages for office of Experiential and Applied Learning in HTML, CSS and JavaScript, these pages were approved by the manager of office and published as result. I am able to realize html features as expected and doing other pages designing now.

2021-2022:  **Shine Tech Software, Zhengzhou, Henan, China**

06/2022 —08/2022 UI designer and Data Analyst

Giving the overview reports of datasets, I analyzed and visualized data in Python, and did presentations to show the overview. Doing predicting part in recommendation systems, I used scikit-learn package in Python, did random forest and classifications. Designing UI for users, I kept in touch with foreign customers via emails (in English) to update their requirements in Chinese and using Java to add UI for software, improved users’ experience in this case.

**Advantage**

Technically: I majored in computer science as an undergraduate, with solid programming ability and logic minds, I can quickly familiarize myself with various software, understanding the code and improving/modifying the code. I have also used a lot of software and open-source code (as list above).

Soft power: I am a very good problem-solver, I can debug patiently and always come up many ideas, although some are fanciful, but I think that means I am an active-mind person; I can accept and adapt to a multicultural environment; I have done projects and presentations in the course, and the results are good; I am self-learn, I learned the basics of html/css in a week, which also enabled me to do website designing for USC.

Others: Easy-going person, a person who like stability.