**Jia Yu**

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3126 Colony Crossings Drive |(832) 277-1669

**EXPERIENCE**

**Magic Wok** – *Assistant Manager;* Houston, Texas Fall 2011 - Present

* Perform in-depth checks to ensure financial correctness
* Establish and maintain partnerships with companies; Yelp, EAT24, Grubhub, and BeyondMenu
* Monitor and keep track of hundreds of orders on POS system

**Super League Gaming -** Action Squad Leader; Houston, Texas April 2017 - Present

* Manage and assign roles to a small team to ensure professional environment and smooth flow
* Troubleshoot technical and connectivity issues

**EDUCATION**

**Bachelor of Science, Computer Science**

**University of Houston** Fall 2014 – Fall 2018

Deans List

**PROJECTS**  \_\_\_\_\_

**Personal Websites**

* Created basic personal website using HTML/CSS/Javascript

**University Searcher Database and Desktop App**

* App that searches for universities based on user chosen variables of location, and tuition, and displays by acceptance rate, ranking, etc.
* Created GUI in C#
* Imported and filtered data into a database table on SSMS/SQL
* Created functionalities for automatic searching based on criteria chosen

**Data Mining/Analysis using R**

* **Project 1:** Pima Indians Diabetes Analysis
* Created scatterplots/supervised scatterplots/3D scatterplots, histograms, boxplots, linear models, and decision trees between pairs of attributes to find correlation in their likelihood to have or develop diabetes
* **Project 2:** Clustering and Using Clustering for Prediction
* Created functions to calculate entropy, ordinal agreement, variance, mdist (transforms attributes into zscores, returning a distance matrix), and percentages of outliers in a cluster
* Created clusters using kmeans, kmedoids, PAM, and DBSCAN to find entropy, agreement, and variance.
* **Project 3:** Classification Models
* Utilized classification algorithms: Neural networks, Support Vector Machine, and Random Forest. Found and reported accuracies of each algorithm
* **Project 4:** Developing Outlier Detection Techniques
* Designed and implemented an outlier detection technique on a 2D dataset that assigned outlier scores based on distance (higher scores equated to greater outlier)
* Assigned outlier score to every variable, and visualized clusters after omitting 9-36% of outliers

**TECHNICAL** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Proficient**: Microsoft Office Suite, C/C#, C++, HTML, CSS, R

**Have experience with:** AngularJS, Java, Javascript, Typescript, SQL/SSMS, 3dsMax

**ADDITIONAL INFORMATION**

**Languages:** Fluent in Mandarin, Fuzhou dialect, English