JINGWEI GAO

4312 Evenstar Way, Plano, Texas 75074 | 682.230.4281 | jxg172630@utdallas.edu

OBJECTIVE & KEY COMPETENCIES

Intellectually curious and adaptive candidate pursuing **M.S. in Computer Science**, with **B.E. in Electrical Engineering** and hands-on programming skills, seeking job in **Software Engineer** starting from 02/2020

- *CS Knowledge*: Coursework in Algorithms & Data Structure, work experience in Data Crawling and Big Data
- *Technical Skills*: Working knowledge in **Python**, Scrapy, **Selenium, MongoDB,** Git, GitHub, JavaScript, HTML, CSS and **Excel**; familiar with **Scala, Pyspark**, **AWS,** Django, R, Tableau, SQL

EDUCATION

UNIVERSITY OF TEXAS AT DALLAS
Richardson, TX
Master of Science in Computer Science (GPA: 3.4/4.0) Aug. 2017 – Dec. 2019

- *Relevant Courses*: **Algorithms & Data Structure, Web Programming, Design and Analysis of Computer Algorithms**, **Database Design,** Operating Systems, Computer Vision, Virtual Reality

- *Data Science Track*: **Big Data**, **Machine Learning**, Statistical Methods for Data Science

UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY
Shanghai, CHINA
Bachelor of Engineering in Electrical Engineering & Automation (GPA: 85/100) Sep. 2013 – Jul. 2017

- *Thesis Topic*: Design of LCD Display Module for TSC Dynamic Reactive Power Compensation
- *Analytical Courses*: Advanced Mathematics I & II, Linear Algebra, C Programming & Practices, Economics, Physics
- *Leadership & Extracurriculum*: Vice President of Human Resources at USST Students' Union; Intramural basketball team captain, winning 2nd place; Violin performer at USST Chamber Orchestra

WORK EXPERIENCE

Software Engineer Intern, **Cosmos International** | Richardson, TX Sep. 2019 – Dec.2019

- Completed **Data Crawling** of thousands of products from Amazon, Ebay, etc. by **Scrapy, Selenium, BeautifulSoup, Pandas, Numpy** in **Python** and stored the data in **MongoDB** and transformed to csv file
- Completed **Data Reduction** of information of thousands of products by **Python, Excel**
- Assisted system integration, completed big data preparing and listing for the ecommerce website
- Co-worked with the supervisor by **Git** and **Github**
- Gained understanding of how to code for business goals in an efficient way

Web Application Developer Intern, **BStrong Computers** | Richardson, TX May. 2019 – Aug. 2019

- Designed 5 new website interface for the customers(e.g. restaurants) by **HTML**, **CSS**
- Completed dynamic functions for the responsive website by **JavaScript** including **JQuery, Bootstrap**
- Added new functions like Contact Form including message and email by **PHP**
- Provided technical support for customer without IT knowledge
- Completed assignments with minimal supervision and developed communication skills by presenting to senior managers

PROJECT & RESEARCH EXPERIENCE

Project Lead, **Online Music Store** (Web Programming Course) Oct. 2018 – Nov. 2018

- Designed the basic functions of the project including user sign up/in, music product listing, add item to cart and checkout, update cart, order history, admin user editing product
- Completed the user sign up part: check the user name using AJAX, and ensure form validation using **JQuery**
- Scripted Front-end part using template engines **EJS**, bootstrap and Back-end part using **Node.JS** for user, order, music
- Used **MongoDB** for database component and input information by JSON file

Project Lead, **Kaggle Project – House Prices: Advanced Regression Techniques** Aug. 2018 – Dec. 2018

- Executed and compared results of multiple **ML** techniques in **Python** to predict Housing Price using 80 features
- Performed *exploratory data analysis* (EDA), *pre-processing* (e.g., log transformation, missing value treatment, conversion of variable type), and *feature engineering* on raw datasets to understand the data and reduce its variability
- Tested an array of **ML algorithms**, specifically *Ridge Regression*, *XGBoost*, *Random Forest*, *Neural Net*, *Decision Tree*, and *OptionSVM*, and utilized GridSearch to obtain best parameters and calculate metrics (e.g., RMSE, MAE, R-squared)
- Gained experience working on real world data and developing an end-to-end **Data Science** solution