Xiangrui Deng

Austin, Texas, 78705 xrdeng@utexas.edu (512)228-1770

EDUCATION

The University of Texas at Austin

Aug. 2018 - May. 2020

Master of Science, Information Science, Focus on Data Analysis - Overall GPA: 3.75/4.00

Selected Courses: Database Management, Data Analytics with Python, Intro to Machine Learning, Data Wrangling, Statistical Analysis/Learning, Advanced Visualization Environments, Visualization and Data Analysis

The University of Manchester

Jun. 2017

Bachelor of Engineering, Mechatronics Engineering

North China Electric Power University

Jun. 2017

Bachelor of Engineering, Electrical Engineering and Automation

SKILLS

Programming: Python (Scikit-learn, Keras, NLTK, Seaborn), SQL, PHP, MATLAB, C

Software: MySQL, SPSS, Tableau, Unity, Sketch, Figma, Illustrator, Photoshop, SolidWorks, LabView, MS Office

COURSE PROJECTS

Interactive User Guide with Hololens (Augmented Reality) – Unity

Oct. 2019 - Dec. 2019

- Provided a paper guidebook based on the official manufacturer's documentation and used it as a test material.
- Designed and developed an AR application with the same function on the Microsoft Hololens.
- Conducted a usability test to evaluate the efficiency and effectiveness of the AR system.

Person Identification Based on Smartwatch (Data Analysis) - Python, Keras

Jan. 2019 - May. 2019

- Cleaned raw PPG and ECG data and extracted 20 different features from filtered signals using Python.
- Built random forest models to identify different people using selected features.
- Built a LSTM model with Keras to conduct person identification.

Company Review Analysis (Data Analysis) - Python, Tableau, Scikit-learn

Jan. 2019 - Mar. 2019

- Developed employees' preference using sentiment analysis and machine learning approaches.
- ♦ Utilized scikit-learn and StatsModels.
- Visualized the dataset to show the characteristic for different companies with Tableau.

Job Search Engine Development (Web Development) - Python, Scrapy, Elasticsearch

Sep. 2018 - Nov. 2018

- Crawl and save data from different resources with Scrapy and Beautiful Soup.
- Built a basic job search engine with Elasticsearch and completed fuzzy search and search suggestions.

The Shopping Mall (Web Development) - MySQL, PHP

Oct. 2018 - Nov. 2018

- Designed data structure and build database about Austin shopping malls in MariaDB.
- Built a search website to help people find the shopping mall they need in PHP.

Control Design and Simulation of a Quadcopter (Simulation) - MATLAB, SolidWorks

Sep. 2016 - May. 2017

- Built the model for the quadcopter in SolidWorks.
- Simulate the aircraft with different control methods (e.g. PID and LQR) in MATLAB.

PROFESSIONAL EXPERIENCE

Software Engineer Intern - HIT Robot Group, Beijing, China

Jul. 2017 - May. 2018

- Contributed to design and created wireframes, user flow, and prototypes for the controller's interface
- ♦ Improved product experience of I-Type Tactical Ground Robot.
- Developed and tested controller's interface by using Qt and ffmpeg.