

# Zihe Song

Website: <https://zihesong.github.io/>

Tel: (469) 900-6071

Email: [Zihe.Song@utdallas.edu](mailto:Zihe.Song@utdallas.edu)

## Education

### **The University of Texas at Dallas**

*Ph.D. Computer Science* 2020 - Current

✧ Advisor: Wei Yang

✧ Research Focus: Mobile Testing, Machine Learning

*M.S. Computer Science* 2018 - Current

✧ GPA: 3.96 / 4.00

### **University of Electronic Science and Technology of China**

*B.E. Communication Engineering* 2014 - 2018

✧ GPA: 3.30 / 4.00

## Skills

Programming Languages: C (5 yrs), Python (2 yrs), Java (2 yrs), R (1 yr), SQL (1 yr)

Operating Systems: Mac (OSX), Linux (Ubuntu), Windows

## Publication

An Automated Framework for Gaming Platform to Test Multiple Games, Zihe Song

✧ Accepted by 42nd International Conference on Software Engineering ACM Student Research Competition (*ICSE 2020 SRC*)

## Projects

**Mobile Application Testing for Low-power Mode** Feb. 2020 - Current

✧ Investigating system impact on applications in power saving mode.

**Flaky Test in Mobile UI Testing** Feb. 2020 - Current

✧ Analyzing flaky tests occurred in mobile application UI testing.

**Automated Testing Framework for WeChat mini-games** Oct. 2019 - Current

✧ Designing an automated testing framework for multiple WeChat mini-games.

✧ Using evolutionary algorithms and reinforcement learning techniques to build the model.

**Santander Customer Transaction Prediction** Mar. 2019

✧ Created binary classification models based on Light GBM, GNB and SVM algorithms to predict whether the customer will make a transaction with Santander.

✧ Dataset contains 200 numerical features and 200,000 instances, the AUC of LGBM model was up to 0.90.

**Real-time Face Detection** Mar. 2019

✧ Wrote code to implement face and blink recognition on real-time graphs.

✧ The detection accuracy was up to 85%.

**Unix V6 File System** Dec. 2018

✧ Created a Unix V6 file system that could write, read and delete large files (up to 4 GB).

**Smart Assisted Guidance System for Cultivation of Pepper** Nov. 2017 - Apr. 2018

✧ Designed a system to predict the risk level of diseases and pests on pepper-plant based on meteorological information using machine learning and data mining techniques.

✧ The final accuracy of the model was up to 85%.

## Teaching Experience

Teaching Assistant, CS 6363 - Design and Analysis of Computer Algorithms

Spring 2020