

TIANCHENG GONG

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Objective

SOFTWARE ENGINEERING INTERN POSITION (SUMMER 2017)

Education

GEORGIA INSTITUTE OF TECHNOLOGY -- ATLANTA, GA

- MS Major : Computer Science – Machine Learning FALL 2016 - PRESENT
 - BS Major : Computer Science – Theory & Intelligence FALL 2013 - SPRING 2016
- Major GPA : 4/4 Overall GPA : 3.82/4

Experience

- Graduate Teaching Assistant @ Georgia Tech 2016.8 – present
 - Working as a TA for Algorithm Design & Analysis course, grading homework and answering questions
- Software Developer Intern @ Tezign (Shanghai, China) 2016.6 – 2016.7
 - Built the pipeline of customer-designer matching process
 - Designed and implemented the learning process of user engagement using gradient descent algorithm
 - Designed and implemented the recommending system which increased the matching accuracy by **200%**
- Undergraduate Research Assistant @ Georgia Tech 2015.9 – 2015.12
 - Extended the Point Process research goal to multiple users with multiple events
 - Constructed the likelihood function over a single column of the Infectivity Matrix
 - Updated the Infectivity Matrix dynamically with self-correction

Projects

- Personal Android Application Project: STL-Reader 2016.7 – 2016.8
 - Implemented the function of downloading .stl file from url and storing the file in the local memory
 - Implemented the function of rendering the .stl file as a 3D model which can be rotated or scaled by users
- Web-App Development: Auto Course Scheduler 2016.1 – 2016.4
 - Implemented the auto course scheduler using AC-3 (Arc Consistency #3) algorithm
 - Worked with group on the implementation of retrieving courses from a third party website
- Machine Learning Project: Yelp Dataset Challenge (Potential Tags for Business) 2015.5 – 2015.8
 - Implemented and revised the preprocessing of the original data (word frequency count, TF-IDF)
 - Analyzed the dataset and selected the proper learning algorithms: Decision Tree, K-NN, Bayesian Network and Neural Network
 - Collected and interpreted the results using Weka for all experiments with accuracy at **86% on sup-categories** classification and off-one accuracy at **58% on sub-categories** classification
- Personal Project: Heat Transfer Model of an Irregular Solid 2015.4
 - Calculated the temperatures of different locations of the model with varying of time
 - Visualized the changes of temperatures of each unit of the solid according to the time

Software Development Skills

- Programming Languages: Java (Primary) , Python , Matlab , Android , C , HTML , CSS
- Development Tools: Eclipse , IntelliJ , Android Studio , Github
- Operating System: Windows, Linux (Ubuntu)