Yexin Tian

413-388-8658 | yexintian@gatech.edu | linkedin.com/in/yexintian/

EDUCATION

Georgia Institute of Technology Expected: May 2021

Bachelor of Science in Computer Science **GPA**: 4.0/4.0

Relevant Coursework: Algorithms, Data Structures, Artificial Intelligence, Machine Learning, Operating System, Introduction to Database, Discrete Math

Academic Honors: Chancellor's Award (the highest scholarship for international students) | Dean's List Honors (all semesters)

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, R, HTML/CSS

Frameworks/Tools: React Native, Redux, Flask, Git, Docker

Operating System: MacOS, Android, Windows, Linux

Database: MySQL

WORK EXPERIENCE

Undergraduate Research Assistant Aug 2019 – Present

Georgia Tech UBICOMP Group

- Using campus-wise Wi-Fi traces to infer group interactions and predict final scores in a group-project intensive course
- Computing behavioral features from Wi-Fi-based movement data, such as colocation, dwelling, and entropy
- Discovering social groups by using the unsupervised clustering algorithms with colocation features derived from Wi-Fi logs

Mobile Application Developer Intern Feb 2019 – May 2019

AWAY App Team, Amherst, MA

- Collaborated with UMass Amherst administrations to develop a cross-platform Accessible Wayfinding mobile application called AWAY App that helps users navigate through campus
- Coordinated through bitbucket from the front end with React Native, JavaScript, HTML, and CSS, connecting into an API, a server with Node and Express in a database using Postgres and ArcGIS

Peer Tutor Sep 2018 – May 2019

Learning Resource Center, University of Massachusetts Amherst

- Provided academic support to 1000 number of students on a walk-in basis for a variety of courses (e.g. data structure, computer system principle, discrete math, linear algebra)

Program Assistant Jul 2018 – Aug 2018

Summer Program, University of Massachusetts Amherst

- Worked as a leader and mentor to assist 50 high school and college students from UAE (United Arab Emirates) to live on campus, conduct research and projects, go on field trips, go to academic college prep-workshops, and get a sense of UMass

Case Work Intern Jan 2018 – Feb 2018

Amherst Community Connections, Amherst, MA

- Devoted 125 hours in weekly incubator events, jobs and houses searching for at least 100 people in total
- Conducted one-on-one conversations with homeless and low-income individuals in order to help them live independently

PROJECT EXPERIENCE

Decision Tree Apr 2019

- Utilized 5-fold cross validation in Python to build and test decision tree on 2018 congressional voting records
- Calculated information gain after handling invalid values and the average prediction accuracy is 90%
- To limit overfitting, implemented a depth limit for the tree, passed in on the command line

UFO Guessing Game Feb 2019

- Utilized Java to implement an interactive guessing-word game from scratch with the hidden word randomly chosen from self-generated dictionary, and designed the UI to make sure the game works smoothly and easy to follow

Huffman Coding Dec 2018

- Implemented Huffman coding algorithm in C for file compression and decompression and reduced the size of files by almost 50 % through three phases: use I/O handler updating the frequency of each character, create a new Tree Node object for each character and add it to a priority queue, and iterate over the priority while it has more than one item to build the Huffman tree

Bank Simulator Sept 2018

- Implemented a bank/ATM simulator in C by forking a number of processes that represent a bank and *n* ATM terminals, which can respond to several different commands and transactions provided by an ATM user