Brandon Osiel Salazar

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Education

The University of Texas at Dallas: Richardson, TX
Master of Science: Mathematics, *focus:* Data Science (**GPA: 3.53**)   **Graduation:** May 2021
Bachelor of Science: Mathematics (**GPA: 3.47**), (Major GPA: 3.67)   **Graduation:** May 2020
Courses: Data Structures and Algorithms, Combinatorics and Graph Theory, Complex Analysis, Data Analysis in R, Numerical Analysis, Linear Algebra, Ordinary Differential Equations, Probability and Statistics

Skills

Programming Languages: **Spoken Languages:**
    Proficient with: Java, R(ggplot2)   **Proficient with:** English, Spanish
    Familiar with: Python, C++, SQL, MATLAB, React

Projects (salazarbrandon1257.github.io/)

Android Chat App (Java, Android Studio, Firebase), *Hobby*   **Jun 2020 – Jul 2020**
- Developed and published android app on Google Play Store that allows users to chat with each other
- Implemented Firebase (authorization, databases, storage), and designed User Interface

Sorting Algorithms Visualizer and UI (React/Redux), *Hobby*   **May 2020 – Jun 2020**
- Built an interactive React/Redux application that visualizes sorting algorithms
- Implemented Bubble Sort, Heap Sort, Insertion Sort, Quick Sort and Merge Sort

Data Analysis on U.S Flight Record Dataset (R), *Academic*   **Feb 2020 – Mar 2020**
- Analyzed data to find best fitting distributions in order to obtain expected values and probabilities
- Derived and presented meaningful conclusions from a real dataset of 260,000 objects and 9 variables

Sudoku Game and Solver (Python, tkinter), *Hobby*   **May 2019 – Jun 2019**
- Created a sudoku game that allows the user to play by interacting with a graphical user interface
- Designed a sudoku solver using a backtracking algorithm to solve newly generated games

Data Scraping and Analysis on E-commerce Website (Python, bs4), *Hobby*   **Jan 2019 – Feb 2019**
- Developed a program in Python to scrape product names, prices, and ratings from a website
- Designed and Implemented databases to prepare data for cleansing and analysis

Relevant Experience

Mathematics Tutor, University of Texas at Dallas   **Sep 2017 – Present**
- Tutor Mathematics and basic programming, specializing in Linear Algebra and Calculus 1, 2, and 3
- Instruct students one to one and lead weekly group review sessions for Calculus 1, 2, and 3
- Analyze student progress in courses to develop personalized action plans to ensure their academic success

Undergrad Teaching Assistant, University of Texas at Dallas   **Sep 2019 – Apr 2020**
- Led two 110-minute problem sessions for Calculus 3 along with another TA on a weekly basis
- Engaged students by implementing the Socratic method and organizing the sessions into active learning

Leadership and Awards

Head Mentor, Academic Bridge Program (ABP) at UT Dallas   **Aug 2018 – Present**
- Mentor 4 students to aid them in reaching their academic and career goals by providing monthly guidance

Secretary, Rotaract Club   **Aug 2018 – Aug 2019**
- Took charge of delegation, held biweekly general meetings, and created events

Family Leader (Mentor), Undergraduate Success Scholars (USS) at UT Dallas   **Aug 2018 – Aug 2019**
- Led a group of 3 students in a related major, organized events, and provided weekly mentorship

Member, Society of Hispanic Professional Engineers (SHPE)   **Aug 2017 – Aug 2018**
Mathematics Tutor of the Year, UT Dallas Interdisciplinary Studies   **Apr 2019**
Academic Bridge Scholar, UT Dallas Interdisciplinary Studies   **Jun 2016**