**Brandon Osiel Salazar**

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**Education**

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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/](https://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**

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**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**