

# 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

## Relevant Experience

**Full-Stack Developer Intern**, Surfboard

**Oct 2020 – Present**

- Research and develop Recommendation Systems to suggest videos to users.
- Design, build, and maintain high performance, reusable, and reliable Python code.

**Mathematics Tutor**, University of Texas at Dallas

**Sep 2017 – Present**

- Tutor Mathematics and programming, specializing in Linear Algebra and 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

## Skills

**Programming Languages:**

**Proficient with:** Java, R(ggplot2)

**Familiar with:** Python, C++, React, SQL, HTML, CSS

**Spoken Languages:**

**Proficient with:** English, Spanish

## Projects ([brandonsalazar.com](https://www.brandonsalazar.com))

**Investing Growth App** (Java, Android Studio), *Hobby*

**Sep 2020 – Oct 2020**

- Created and published android app on Google Play Store that calculates expected growth of investments
- Implemented API to receive real time stock prices, along with designing user interface

**Android Chat App** (Java, Android Studio, Firebase), *Hobby*

**Jun 2020 – Jul 2020**

- Developed android app on Android Studio 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)**, *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

## 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

**Member**, Society of Hispanic Professional Engineers (SHPE)

**Aug 2017 – Aug 2018**

**Mathematics Tutor of the Year**, UT Dallas Interdisciplinary Studies

**Apr 2019**