

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

Software Engineer Intern, Surfboard

Oct 2020 – Present

- Research and develop Recommendation Systems to suggest videos to users
- Implement Triton (NVIDIA Merlin framework) to run inference efficiently at a large scale

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: Java, R(ggplot2)

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

Tools: Git, Linux (Ubuntu), Firebase

Spoken Languages:

Proficient: English, Spanish

Projects

Personal Website: brandonsalazar.com (for additional information and projects)

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

Sep 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*

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*

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*

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

Data Scraping and Analysis on E-commerce Website (Python, bs4), *Hobby*

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

Mathematics Tutor of the Year, UT Dallas Interdisciplinary Studies

Apr 2019

Academic Bridge Scholar, UT Dallas Interdisciplinary Studies

Jun 2016