

# Brandon Osiel Salazar

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## Education

The University of Texas at Dallas: Richardson, TX

**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 Developer**, Paycom

**Jan 2021 – Present**

- Develop UI using jQuery, JavaScript, Ajax, HTML, and CSS to support seamless user experience
- Identify and resolve several security issues involving SQL Injections and XSS vulnerabilities
- Fix major bugs affecting millions of users on a daily, weekly, and monthly basis based on priority
- Optimize web application performance, write Unit Tests, and work on RESTful API
- Languages: PHP, JavaScript, MySQL, HTML/CSS

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

**Sep 2017 – Dec 2020**

- 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

## Skills

**Programming Languages:**

**Proficient:** Java, PHP, SQL, JS

**Familiar:** Python, C++, React, HTML, CSS, R(ggplot2), C#

**Tools:** Git, Linux (Ubuntu), Firebase

**Spoken Languages:**

**Proficient:** English, Spanish

## Projects

**Personal Website:** [brandonsalazar.com](https://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 – May 2020**

- 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**