**Brandon Osiel Salazar**

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**Education**

The University of Texas at Dallas: Richardson, TX

**Master of Science:** Mathematics, *focus:* Data Science (GPA: 3.5)  **Graduation:** May 2021

**Bachelor of Science:** Mathematics (GPA: 3.4), (Major GPA: 3.67) **Graduation:** May 2020

**Courses:** Combinatorics and Graph Theory, Complex Analysis, Data Analysis, Differential Geometry, Numerical Analysis, Numerical Linear Algebra, Ordinary Differential Equations, Probability and Statistics, Techniques in Applied Mathematics

**Skills**

**Programming Languages: Spoken Languages:**

**Proficient:** Python (Matplotlib, Pandas) **Proficient:** English, Spanish

**Intermediate:** SQL, MATLAB, R

**Novice:** Spark, Hadoop, HTML, Mathematica

**Tools:** Excel, VBA, Tableau

**Projects**

**Data Scraping and Analysis on e-commerce book website (**Python, bs4, SQL**)**,*Academic*  **Nov 2019-Dec 2019**

* Developed a program in Python to scrape data from an e-commerce book website
* Designed and implemented databases in SSMS for the purpose of descriptive statistical analysis and data cleansing

**Cryptocurrency-predicting RNN Model (**Python, TensorFlow),*Academic* **Jul 2019-Aug 2019**

* Trained a recurrent neural network to predict cryptocurrency price movement
* Successfully predicted price change direction of cryptocurrency with a validation accuracy of 0.58%

**Knot Theory (**Mathematica), *Academic* **Jan 2019 – May 2019**

* Researched and conducted Independent study with a Professor of Mathematical Sciences at UTD in Knot Theory
* Showed by computation that the alexander polynomial of an L-Space knot has a simple root in the unit circle

**Relevant Experience**

**Undergrad Teaching Assistant**, University of Texas at Dallas **Sep 2019 – Present**

* Lead two 110-minute problem sessions for Calculus 3 along with another TA on a weekly basis
* Engage students by implementing the Socratic method and organizing the sessions into an active learning style

**Mathematics Tutor**, University of Texas at Dallas **Sep 2017 – Present**

* Tutor Mathematics and basic programming, specializing in mathematics from Algebra up to upper-level Mathematics
* Instruct students one to one and lead weekly group review sessions for Calculus 1, 2, and 3
* Analyze student progress in math courses in order to develop personalized action plans to ensure their academic success

**Sales Representative**, Metro PCS **Jun 2016 – Aug 2016**

* Met customer needs and ensured each individuals satisfaction by giving them a personalized product choice
* Handled cash transactions and earned commission by collaborating with a team to meet a monthly quota

**Student Assistant**, Mountain View College **Jun 2015 – Aug 2015**

* Collaborated with a team of writers in order to provide writing assistance to at least 5 individuals daily
* Managed and organized our workspace, where I carried out filing duties along with conducting daily reports

**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 guidance on a monthly basis

**Member,** Society of Industrial and Applied Mathematics (SIAM) **Jan 2018- Present**

**Secretary,** Rotaract Club **Aug 2018 - Aug 2019**

* Organized event as a Site Leader where we distributed at least 100 trees to Plano residents to sustain the environment
* Took President and Vice President roles, by taking charge of delegation, holding general meetings, creating events, etc.

**Family Leader (Mentor),** Undergraduate Success Scholars (USS) at UT Dallas **Aug 2018 - Aug 2019**

* Led a group of 3 students in a related major where I organized events for them along with providing weekly mentorship

**Member**, Society of Hispanic Professional Engineers (SHPE**) Aug 2017- Aug 2018**

**Mathematics Tutor of the Year**, UT Dallas Interdisciplinary Studies **Apr 2019**

**Mathematics Tutor of the Year**, UT Dallas Interdisciplinary Studies **Apr 2018**

**Academic Bridge Scholar**, UT Dallas Interdisciplinary Studies **Jun 2016**