

EDUCATION

- **The University of Texas at Austin** Austin, TX
Bachelor of Science in Statistics and Data Science and ; GPA: 4.00 Rising Sophomore

- **Relevant Coursework:** Matrices and Matrix Calculations, Multi-variable Calculus, Probability I, Statistical Thinking

EXPERIENCE

- **Virtual Reality Lab** Austin, TX
Research Assistant Jan 2023 - June. 2023
- **UT Quantum Collective** Austin, TX
Director Aug. 2022 - Dec. 2022
 - **Outreach:** Driving strategic vision of partnership relations for impactful and long-term community programs and defined key metrics and goals for collaborations to guide organizational growth outcomes.
 - **Communication:** Manage and effectively communicate on multiple stakeholder agreements with key partners.
 - **Fall Fest Event:** Lead on outreach campaigns for Qiskit Fall Fest, establishing strong network of industry relations with companies like Microsoft Azure, Strangeworks, Womanium, and ColdQuanta.
- **Biodock Inc.** Remote
SWE Internship June 2021 - Aug. 2021
 - **Amazon Web Services:** Created Background Windows Service for synchronizing user S3 buckets with local file storage in real time via S3 REST API.
 - **UI + Backend Development:** Created a responsive desktop application using Python TKinter API, connected back-end and front-end code for efficient workflow.
- **Miami University** Oxford, OH
Research Assistant Dec. 2020 - June 2021
 - **Light Propagation Through Turbid Media:** Used MatLab to simulate light propagation through turbid media, used polarization to determine properties of medium.
 - **Simulation parser:** Developed series of Python/Javascript files to work together to efficiently parse a large volume of simulation files, used by a team of graduate students.

PROJECTS

- **NBA Sports Betting Models**
Python/R
 - **Arbitrage Detector:** Scraped live moneyline odds in real time with Selenium library across multiple sportsbooks and ran through arbitrage detector script to exploit variances in odds across sportsbooks.
 - **Machine Learning:** Scraped dataset from SDQL and NBA stats website. Implemented XGBoost Regression Model to predict total points scored in a game for Over/Under odds, and Support Vector Machine to predict which team would win (5% ROI, backtested over 2020 season).
- **Webpage Analytics Consultant**
Google Search Console/Google Analytics
 - **Google Analytics:** Volunteered at local nonprofits to increase website traffic by almost 30% with Google Analytics, Search Console, and other site analytics tools.
 - **Marketing Campaigns:** Compared past marketing campaigns, identified target demographic and created action plan for driving more users to site.
 - **Nonprofits:** Organizations included Girls Inc-Dallas, Alliance Francaise, and A Different Breed.

SKILLS

- **Languages:** Proficient: Python, R, HTML/CSS — Adequate: Javascript, Qiskit
- **Mathematics:** Calculus, Time Series, Probability, Matrices, Statistics
- **Interests:** 2020 DECA Team Entrepreneurship State Winner/ICDC Qualifier (Business Comp.); 2022 Cyberpatriots Gold State (Cybersecurity Comp.); Recreational Fencing and Racquetball