

# Cassidy Nguyen

Houston, TX

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## EDUCATION

University of Houston, College of Natural Sciences and Mathematics

Aug 2022 – Dec 2025

*Bachelor of Science in Computer Science, Minors in Mathematics & Business Administration*

**Cumulative GPA:** 3.92/4.00

**Honors:** Dean's Distinguished Scholars List (6x), AP Scholar with Distinction, Academic Excellence Scholar

**Relevant Coursework:** Data Science & Machine Learning, Statistics, Database Systems, Algorithms

**Certifications:** Power BI (In Progress), Data Science Math Skills (Coursera)

## PROJECTS

**Lottery Trends Dashboard** | *Tableau, SQL, Python, pandas*

Sep 2025

- Automated cleaning and standardization of 1,000+ Powerball draws across 15+ years in Python (pandas), cutting preparation time from 5 hours to 3 hours and improving dataset reliability for downstream analysis
- Optimized SQL queries to derive hot/cold number frequencies and summary tables that reduced manual workload by 70%
- Deployed an interactive Tableau dashboard (heatmaps, trendlines, distribution charts), empowering non-technical users to rapidly identify long-term number patterns and frequency trends

**Sleep Health Predictive Modeling** | *R*

May 2024

- Transformed a 374-record Kaggle sleep health dataset through feature engineering (encoding, field removal, train/test split) to enhance model interpretability and reliability
- Achieved a 91% classification accuracy in predicting sleep disorders (Insomnia, Sleep Apnea, No Disorder) by training logistic regression and random forest models (1,000 trees)
- Visualized feature importance to identify sleep quality, stress, and physical activity as top predictors to guide screening

**Vendor Invoice Reconciliation** | *Excel*

June 2023

- Consolidated \$1M+ in alcohol purchase data (7 vendors, 5 years) into a centralized Excel ETL pipeline with Power Query to standardize schemas and data types
- Implemented validation checks (VLOOKUP, conditional formatting) to uncover 70+ fraudulent invoices, preventing \$6.5K in unnecessary tax liabilities
- Delivered Texas Alcoholic Beverage Commission (TABC)-compliant audit reports and visuals, shortening reconciliation time by 35% and enabling precise regulatory reporting by standardizing data presentation and minimizing errors

## EXPERIENCE

**Safari Texas Ranch** – Richmond, TX

June 2022 – Present

*Catering Event Manager*

- Redesigned a multi-sheet Excel/Power Query system for vendor invoices and alcohol inventory, identifying 80+ discrepancies annually and generating TABC compliance reports that reduced financial penalties by 92%
- Directed 200+ weddings, galas, and corporate events (50-900 guests), coordinating staff and vendors to deliver seamless execution and attaining 95%+ client satisfaction measured by post-event reviews and repeat bookings
- Managed \$50K+ event budgets, negotiating vendor contracts and streamlining expenses to cut costs by 10% and boost profit margins by 15% through stronger vendor relationships and improved financial transparency

**Harris County Elections** – Houston, TX

Oct 2021 – Nov 2021

*Electronics Support Specialist*

- Calibrated election devices (Verity Controller, Touch Writer Duo, ePollBooks) for 300+ voters with zero discrepancies
- Verified IDs and check-ins for 100+ individuals, ensuring compliance and election records protection for reporting
- Resolved technical issues under strict time constraints, minimizing downtime by 90% and guaranteeing uninterrupted voting operations through root cause documentation

## TECHNICAL SKILLS

**Programming:** Python, R, SQL, C/C++, Java, JavaScript, HTML/CSS

**Data Analysis & Visualization:** Tableau, Power BI, Excel (Power Query, Pivot Tables), pandas, NumPy, Matplotlib

**Techniques:** Data Cleaning, Exploratory Data Analysis (EDA), Statistical Modeling, Data Visualization, ETL