

Skills

- SQL (SQL Server, MySQL, PostgreSQL)
- Python, R, Stata (Pandas, NumPy, SciPy, Matplotlib)
- Excel (VLookup, Conditional Formatting, Pivot Tables)
- React mobile development
- JIRA, AGILE
- Microsoft Power BI, Tableau (Dax, API, Power Query)

Projects

ADVANCED PITCHING ANALYSIS: A SQL-BASED STUDY ON THE TEXAS RANGERS:

- Utilized **SQL** to extract data from 4 different related tables and data sets from historical baseball databases using **JOIN** and **VIEW** after rigorous **data cleaning** and preparation.
- Transformed and filtered data by using aggregating and filtering function to improve reporting process.
- Employed the **OVER()** clause and **UNION** operation to facilitate advanced data aggregation and unveil contextual insights.

POWER BI-INTEGRATED POE CURRENCY ANALYSIS TOOL:

- Utilized the Path of Exile **API** to craft an interactive dashboard in **Power BI**, providing players with a dynamic tool to analyze the complex currency landscape in the game and make informed financial decisions.
- Enabled real-time tracking and analysis of in-game currency fluctuations through interactive line charts and financial charts.
- Consulted with a diverse group of players to identify and integrate the most relevant metrics to be displayed.

PYTHON-BASED INVESTMENT STRATEGY OPTIMIZATION TOOL:

- Utilized **Python** to develop a robust portfolio analysis tool incorporating Monte Carlo simulations and Efficient Frontier modeling to visualize risk-return trade-offs.
- Incorporated data analysis libraries including **NumPy**, **Pandas**, and **Matplotlib** to process and model complex data intuitively.
- Integrating advanced financial modeling algorithms to assist users in optimizing their investment portfolios through interactive risk and return analyses.

Work Experience

E-SPORTS HEAD COACH / ANALYST – Winthrop University – Rock Hill, SC

August 2021 - June 2023

- Lead the Winthrop University Valorant team as Head Coach, steering the team to a #1 rank in the east region and #2 nationally, culminating in a semifinal finish at the collegiate Valorant grand finals.
- Leveraged advanced data analytics skills to develop winning strategies, utilizing Python and Excel to analyze game data and uncover team strengths and weaknesses, fostering a data-centric approach to strategy formulation.
- Led and conducted rigorous practice sessions, utilizing data insights to tailor training programs, enhance player skills, and foster a culture of continuous improvement and excellence.

SAAS MARKETING INTERN – Conlan Scientific – Charlotte, NC

June 2022 - August 2022

- Spearheaded marketing campaigns, meticulously monitoring key metrics such as click-through rates to optimize performance, demonstrating analytical acumen in interpreting complex data to facilitate successful outcomes while maximizing ROI.
- Played a pivotal role in elevating the company's book "Fast Python" to the top 1000 best sellers in Amazon sales from a previous rank of 300,000, showcasing the ability to implement data-driven strategies that yield tangible results.
- Acted as a liaison between the development and marketing teams, facilitating communication and collaboration between teams.

Education

BACHELOR OF BUSINESS ADMINISTRATION, FINANCE – Winthrop University – Rock Hill, SC

August 2023