

## Education & Certification

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- *University of South Florida, 2021 | BS Biomedical Engineering*
- *Microsoft Certified | Power BI Data Analyst*

## Work Experience

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### Central Admixture Pharmacy Services (CAPS)

February 2023 – March 2024

#### *Compounding Operations Analyst*

Denver, CO

- Pharmaceutical production within an ISO 5 cleanroom environment.
- Analyzed compounding data to optimize operational processes, resulting in identification of factors contributing to product failures and minimized production time.
- Leveraged inventory data to optimize stock levels and monitor performance, thus improving resource management between departments.

### Cardinal Health

March 2022 – January 2023

#### *Lead Purchasing Analyst*

Denver, CO

- Managed pharmaceutical inventory across a network of hospitals.
- Analyzed hospital data to streamline and improve business operations, leading to reduced inventory stockout, minimized pharmaceutical waste, and increased cost savings.
- Implemented and integrated an inventory database system across multiple hospitals to optimize resource allocation.

## Projects

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### Inventory Database Integration – Professional

- Spearheaded the integration of data analytics to streamline hospital inventory management, utilizing **SQL** to consolidate data from a supply station database and Excel files (purchasing invoices and de-identified medication usage) into a unified **Microsoft SQL Server** inventory database.
- Developed a **Power BI Dashboard** that monitors medications at risk to stockout or nearing expiration while also displaying inventory metrics over time (such as inventory cost and count.)
- Consolidated separate **Microsoft SQL Server** inventory databases into a unified structure, enabling visibility into inventory levels across hospitals. Developed a **Power BI Dashboard** to streamline leveraging the unified inventory database, further minimizing stockouts and expirations.

### Optimizing Production Operations – Professional

- Took initiative to introduce operations analytics by leveraging production data from compounding software and equipment. Utilized **Python & SQL** to extract and transform task entries into CSV files, enabling detailed analysis.
- Utilized **Python** to analyze variable correlations to production speed, discovering opportunity to optimize ingredient introduction and reduce production time by up to 6%, thus improving operational efficiency.
- Utilized **Python** to conduct root cause analysis, identifying trends leading to production failures and recommending preventive measures to enhance operational reliability.
- Utilized **Python(Matplotlib & Seaborn)** for advanced **data visualization**, presenting operational recommendations supported by insightful charts to management.

### Personal Portfolio Website – Personal

- Created a website to showcase my personal portfolio to employers and clients.

### Optimizing Delivery – Personal

- Addressed challenges in contract renewal for an FMCG manufacturer, focusing on improving delivery quality.
- Developed a **Power BI Dashboard** leveraging **DAX** for root cause analysis and key metrics tracking. (UI/UE optimized)
- **SQL** and **Python** is used for data wrangling, data preparation, and additional data visualization.