

## PROFILE

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Data scientist with a strong foundation in healthcare analytics.

## SKILLS

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**Languages** Python (pandas, NumPy, scikit-learn, PySpark), R, SQL,  $\text{\LaTeX}$

**Data Science** Hypothesis Testing, Linear/Logistic Regression, Random Forest, Neural Networks

**Tools** Git, Jupyter, Databricks

## EXPERIENCE

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### CVS Health

2023 – Present

*Data Scientist · Retail Pharmacy Consumer Analytics*

- Conduct EDA on Flu, COVID, and additional immunization patient populations.
- Authored presentations on analyses for audiences at a mixed technical level.
- Provide and maintain performance measurements on immunization campaigns.
- Developed a random forest uplift model to optimize timing of delivery of SMS messages for immunizations outreach.
- Performed data cleaning, aggregation, and feature engineering on patient immunization and retail data.

### St. Jude Children's Research Hospital

2021

*Biostatistics Research Intern*

- Wrangled pediatric oncology patient health records to visualize several average temporal trends in patient BMI based on presence versus absence of bacteria species pair.
- Implemented a linear mixed-effects model to identify 3 bacteria species pairs correlated with elevated post-treatment BMI.
- Conducted hypothesis testing and presented results in a research seminar and wrote a manuscript detailing project methods and discussion.

### Computational Medicine and Informatics Collaboratory

2018 – 2020

*Research Assistant*

- Wrote scripts to extract critical care telemedicine data to analyze failure rates and temporal differences between noninvasive ventilation strategies of 10K patients.
- Conducted subgroup analysis to identify patient personas and generated sankey diagrams to visualize 9 patient subgroup outcomes.
- Applied logistic regression to show that NIPPV patients have an increase of 16.8% in mortality compared to HFNI patients, who carry a 6.6% increase in mortality.

## EDUCATION

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### University of Pennsylvania

2023

*Master of Computer and Information Technology*

### University of Arizona

2019

*Bachelor of Arts (with Honors)*