# Jacob Parks
**Data Scientist**

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## Summary

Recent graduate of the University of Memphis with strong analytical skills looking to begin my career in data science. From following baseball statistics in grade school to performing materials science research in college, I have always had a love for analyzing numbers in new and interesting ways. Upon graduation from NSS, I plan to pursue a career in what has already been a lifelong passion of mine.

## Experience

### Nashville Software School | Tennessee, Nashville
### Data Scientist Apprentice | 09/2021 - Present
Nine (9)-month part-time introduction to the data science process and toolset. Emphasis on:
- Learning and practice in getting and organizing data.
- Exploratory data analysis.
- Building machine learning models and testing hypotheses.
- Data visualization and storytelling using Python, R, and SQL.
- Working with external stakeholders on real-world data problems.

### Tennessee Department of Intellectual and Developmental Disabilities | Tennessee, Knoxville
### Data Science Volunteer | 01/2022 - Present
- Leading the Department of Intellectual and Developmental Disabilities in the development of an R Shiny application for care providers.
- Using Python and RShiny to build an app that categorizes and sorts drugs, drug side effects, typical drug use for specific diagnoses, and food categories in an effort to define risks and aid in the discussion of mitigating the risk of polypharmacy.

### University of Memphis | Tennessee, Memphis
### Undergraduate Research Assistant | 01/2018 - 05/2021
Materials Science laboratory in the department of Physics.
- Collected data on a variety of materials using profilometry, spectroscopy, microscopy, and other methods.
- Analyzed data and presented findings at the National Conference for Undergraduate Research and the Emerging Researchers National Conference.
- Published article in the undergraduate research journal *Quaesitum.*

## Skills

Python, SQL, R, RShiny, Numpy, Pandas, Tidyverse, dplyr

## Education

### Nashville Software School | Nashville, Tennessee
### Data Science Apprentice | 06/2022

### University of Memphis | Memphis, Tennessee
### B.S. Physics and Mathematical Sciences | 05/2021
- 4.0 GPA
- College of Liberal Arts and Sciences Outstanding Student Award
- Chi Beta Phi Science Award in both Physics and Math

## Projects

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**HealthCare Bluebook Referral Analysis**
Analyzed medicare data using Louvain community detection in Neo4j and Python to determine which Middle Tennessee medical providers Vanderbilt hospitals should target to increase their referral count.

**Kaggle Rocket League Machine Learning Model**
Used several different modeling techniques (Logistic Regression, Random Forest, Neural Networks) to create a classification model predicting the rank of a Rocket League player based on in-game statistics.

**Hauser Jones & SAS Shiny App**
Created an R shiny app allowing the user to compare the lending practices of financial institutions as a tool to determine HMDA compliance.