

# Adam Crank

(615) 881-9744

[adam.crank@outlook.com](mailto:adam.crank@outlook.com)

[linkedin.com/adam-crank](https://linkedin.com/adam-crank)

[github.com/Adam-Crank](https://github.com/Adam-Crank)

## ABOUT ME

Coming from an educational background in math and physics, I've spent a significant amount of time in labs working with data, using it to build mathematical models. As my career interests shifted from a Physics bias to a Mathematics one, I elected to pursue a more active career path that lets me work closer and more directly with data manipulation.

## EXPERIENCE

### Nashville Software School— *Data Analytics Apprentice*

September 2022 - PRESENT

Intensive full-time bootcamp focusing on data analytics fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.

- Analyzed data using Microsoft Excel, including utilizing pivot tables and lookups, and connected to external data sources using the PowerPivot add-on
- Built and deployed dashboards using Tableau and PowerBI
- Retrieved and analyzed data using PostgreSQL
- Source code version control with Git/GitHub
- Project management/tracking with GitHub project boards and issue tracking

#### Projects:

- Traffic Accidents: Used Excel to explore a dataset of car accidents in Davidson County, such as number of accidents by various time periods (hour, day, year).
- App Trader: Utilizing SQL, compared apps that existed in both the Apple and Android app stores to determine the top 10 most profitable apps using calculated criteria such as estimated app longevity and cost to advertise.
- Prescription Drugs: Explored a database of prescription drugs and registered prescribers by writing a SQL script to draw conclusions regarding the number and type of drugs prescribed, and the prescribers' fields of specialization.
- Socrata API: Accessed data sets from the Nashville Open Data Portal utilizing SODA API, performing exploratory data analysis of the top-500-monthly-searches data set.
- Tennessee Early Intervention System: Analyzed the scores of young children in a number of skills used to measure cognitive development of said children, and examined if there existed any trends in demographics (i.e., sex or age) and skill score as part of a larger analysis performed by peers.

## SKILLS

Excel (LOOKUPS, Pivot Tables)

SQL (PostgreSQL)

Python

Power BI

Tableau

API requests

Agile Methodology

R

## LANGUAGES

English

Arabic

- [Impact of Affordable Housing Developments](#): Examined the change in median income of census tracts in the Nashville area in order to identify whether or not the presence of affordable housing developments correlated with percent growth of median income over a ten year span, as part of a larger analysis performed by peers.

### **Alabama Plasma Internship Program**— *Research Intern*

June 2021 - August 2021

- Performed research on the structure of solar wind shocks by exploring data collected by WIND spacecraft using R.
- Classified instances of observed shocks based on both the ambient plasma behavior, as well as direction of magnetic field lines.
- [Assembled a research report](#) detailing the classification system of these shocks, including a real, example shock event to demonstrate this system.

### **Oak Ridge National Laboratory**— *Research Intern*

June 2020 - August 2020

- Performed research in the field of quantum optics with applications to dark matter detection.
- Examined designs for new, highly sensitive interferometer designs for ultralight dark matter detectors

## **EDUCATION**

### **Nashville Software School** — *Data Analytics Bootcamp Certification*

Expected Graduation January 2023

### **University of Alabama in Huntsville**— *B.S. in Mathematics and Physics*

August 2018 - May 2022