

# LUKE BECKER

Data Scientist

 [Luke.w.becker32@gmail.com](mailto:Luke.w.becker32@gmail.com)  210-882-0722  [github.com/lukewbecker](https://github.com/lukewbecker)  [in/lukebecker/](https://in.lukebecker/)

My experience as a financial advisor and investment analyst as provided me the opportunity to develop deep analytical and communication skills and has provided me a deep understanding of real-world applications for time-sensitive data-driven analysis. I now utilize these skills to identify and present data-driven solutions to data science challenges.

## TECHNICAL SKILLS

Python - Pandas - SQL - Machine Learning - Natural Language Processing - Spark - Git - Jupyter Notebooks - Tableau - Seaborn - Bloomberg Terminal

## DEVELOPMENT PROJECTS

### Capstone Project: SVI and COVID in San Antonio Jan. 2021

The CDC's social vulnerability index (SVI) predicts the vulnerability of a population in the event of an emergency or natural disaster. COVID is the first global pandemic since the development of this measure. We are evaluating the association between SVI score and COVID case count in San Antonio, TX. Feature engineering will examine the predictive value of categorical SVI score, SVI flags, and change in SVI. The goal is to determine which features best predict COVID cases by zip code within San Antonio.

### Zillow Tax Valuation Project Oct. 2020

Searched for drivers of property tax valuation based on housing prices from a Zillow dataset. Used regression models that predicted the tax value of single unit properties. Utilizing RMSE as a measurement of the regression model's error, the final model (a polynomial regression model) was 4.2 times more accurate than the baseline regression model.

### Telco Churn Project Sept. 2020

Project using data for a hypothetical telecom companies customer data to develop models to more accurately predict potential customer churn based on classification of customer groups. Focused on specific customer behavior that would most likely result in reduced churn in the customer base.

## PASSION PROJECTS

### Dota 2 Win Projection Project Dec. 2020

Utilizing data from publicly available datasets and APIs, developed a model that predicted win/loss outcomes for each player in a match based upon features derived from the dataset. Using classification models, the model developed improved upon the baseline model by 34%.

## PROFESSIONAL EXPERIENCE

### Swan Global Management March 2018 - July 2020 Research Analyst

Worked with senior portfolio managers to create key strategies for growth and income generation. Designed new risk management tools for portfolio managers and worked with Lead Risk Manager in the firm to quantify risk across the firm. Checked feasibility of software prototypes. Developed specialized tools to assist in the company's research and analysis.

### USAA Sept. 2014 - March 2018

#### Wealth Advisor

Worked with clients performing holistic financial planning and risk management.

### Aspect Wealth Management Oct. 2008 - Sept. 2014

#### Financial Consultant

Developed automated system to retrieve client financial data for use in client reviews and portfolio analysis, reducing the time taken to prepare reviews from an average of 5 hours to 10 minutes.

## EDUCATIONAL TRAINING

### Codeup - Data Science Program Certificate of Completion Jan. 2021

Fully-immersive, project-based 22-week career accelerator that provides students with 670+ hours of expert instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working with real, messy data to deliver actionable insights to diverse stakeholders.

### Liberty University May 2015 MBA in International Business

### Louisiana Baptist University May 2009 BA in Communications

### Certified Financial Planner April 2013 Professional Designation