

## Technical Skills

- Excel (VLookup, Conditional Formatting, Pivot Tables)
- SQL (MySQL, SQL Server, SQLite)
- Tableau
- Microsoft Power BI
- Python (Pandas, PyPlot, SK-Learn)
- R (TidyR, DplyR, GGPlot2)
- Microsoft Office
- Google Sheets
- Git/GitHub
- Jupyter Notebooks
- Java

## Projects

### HR Data Analysis with Machine Learning – Google Advanced Data Analytics Capstone Project – **Python, Pandas, SK-Learn**

- Used company survey data to reduce churn by predicting if an employee was likely to leave the company in **Python notebook**
- Constructed **logistic regression, decision tree, and random forest** machine learning models using **SK-Learn & Pandas**
- Created data visualizations using **PyPlot & Seaborn**

### End-to-End Marketing Data Analysis & Action Plan – Google Data Analytics Capstone Project – **R, Excel, Jupyter Notebooks**

- Helped smart fitness device company identify marketing opportunities by analyzing public datasets in **R notebook**
- Used **TidyR & DplyR** for exploring, cleaning, formatting & analysis & formulated action plan based on results
- Created data visualizations using **GGPlot2**

### Fire Department Predictive Analysis Tool – University Capstone Project – **Python, SQLite, SK-Learn, PyPlot**

- Coded program using **Python** for fire departments to enter data into **SQLite** database manually or by importing CSVs to receive necessary apparatus recommendations & receive data visualizations using **PyPlot**
- Trained machine learning model using **SK-Learn** to predict call volume based on predictive analysis

### Relational Database Appointment Tracker – University Project – **Java, MySQL**

- Coded application in **Java** for scheduling customer appointments & assigning company representatives, including time-zone & language localization, login functionality & login history tracking
- Used **MySQL** to store information in relational database including customers, appointments, representatives, districts, and more

### Web Scraper & Data Analysis with Excel – Personal Project – **Python, Excel, BeautifulSoup, Pandas, Jupyter Notebooks**

- Created a **Python notebook** using **BeautifulSoup** to scrape information from web page into **Pandas DataFrame**
- Exported & analyzed as **Excel** spreadsheet including cleaning, restructuring, and creating visualizations to find trends

### Interactive Tableau Dashboard – Google Advanced Data Analytics Project – **Tableau**

- Created interactive Tableau dashboard & presentation to explain trends in lightning strike locations across the U.S. & Texas

## Data Analytics Experience

### Real Estate Agent – Hometown Realty, Long & Foster Real Estate – Richmond, VA August 2019 – August 2022

- Performed **exploratory data analysis** of multiple real estate markets daily & presented profitable opportunities to investor clients
- Provided potential seller clients complementary **market analysis** for their home including **data visualizations**
- Used **Excel** spreadsheets to create net proceed estimates for seller clients
- Performed **market analyses** & prepared predicted home-ownership cost spreadsheets in **Excel with visualizations** for buyer clients
- Used **data visualizations** to simplify & **communicate action plans** with clients, including transactions with multiple stakeholders

### General Manager – Pizza Hut – Midlothian, VA August 2016 – January 2018

- Manually used **predictive analytics** with data from **company database** to forecast sales
- Used **Excel** spreadsheets to track, calculate, manage & order inventory
- Reviewed **employee analytics** to properly schedule staff while appropriately managing labor costs
- **Conducted meetings** with shifts & individual employees to review shift, individual & total restaurant metrics using **Excel** spreadsheets, **data visualizations & action plans**

### Real Estate Investor June 2019 – Present

- Use **predictive analytics** to project ROI & COC of potential investments
- Predict monthly payments using **Excel** based on variety of factors such as interest rates, taxes, insurance, maintenance & vacancy
- Use **predictive analytics** to estimate potential repairs, vacancies & capital expenditures
- Create yearly **profit & loss statements** in **Excel** with **data visualizations**

## Education & Certifications

### Bachelor of Science: Computer Science – Western Governors University August 2023

### Google Data Analytics Certificate – Coursera November 2023

### Google Advanced Data Analytics Certificate – Coursera December 2023