

Ty Painter

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EXPERIENCE:

Data Science Researcher – *Data Science Institute, Vanderbilt University* November 2020 – February 2021
NFL Financial Literacy Project: *Student-lead startup that lets athletes assess their risk profile, offering a holistic picture and visualization of abstract data and statistics*

- Performed data cleaning processes in Python JupyterLab on public, web-scraped NFL player contract data.
- Transformed JSON files into data frames to improve efficiency of financial calculations and roster probabilities.
- Utilized the 'nbdev' package to create tests and establish a documentation system for future statistical modeling.

Business Analyst – *Ntelicor* July 2019 – August 2020

- Maintained and enhanced the Medicare Part B claims processing system.
- Conducted research and analysis on 3-5 change requests concurrently during each quarterly release.
- Described concise functional business requirements to meet customer needs for each change request.
- Completed documentation changes on 30-80 page documents that described new system operations.
- Designed and executed 20-200 case test plans to ensure accurate system processing.
- Resolved any possible defects or problems associated with implementation.

Management Clerk Intern – *Letterkenny Army Depot* Summer 2018

- Forecasted timetables for inventory restock to create and manage route schedules.
- Searched and requested quotes to submit purchase requests for production parts.
- Managed and facilitated production parts to various facility workshops.

PROJECTS:

Opportunities in Cities and Suburbs in the USA – *Exploratory Data Analysis Final Project* Fall 2020

- Analyzed and developed motivating questions to guide a presentation to school and government officials.
- Produced graphics using the 'ggplot2' package to provide insight on strengths and weaknesses of US cities.

Evaluating and Targeting Customers – *Data Science in Teams Semester Projects* Spring 2021

- Created an interactive Tableau dashboard producing visualizations regarding product and geographic sales data.
- Generated predictive models using 'scikit-learn' to predict customer product purchases to improve target marketing.

NYPD Crime – *Data Management Systems Final Project* Spring 2021

- Designed and implemented a back-end MySQL Workbench database containing crime information.
- Connected the back-end database to a front-end PHP user interface allowing for user data manipulation.

EDUCATION:

Master of Science in Data Science, Vanderbilt University Expected May 2022
GPA: 3.88

Honors: Dean's List (Fall 2020, Spring 2021)

Bachelor of Science in Business Administration, Shippensburg University May 2019

Major: Management Information Systems and Finance | Concentration: Personal Financial Planning

GPA: 3.89 | Honors: Summa Cum Laude, Beta Gamma Sigma Member, Dean's List (Fall 2015 – Spring 2019)

TECHNICAL SKILLS:

- GitHub
- Microsoft Visual Basic, C++, and Azure
- Python (Pandas, NumPy, scikit-learn)
- R (tidyverse, ggplot2, keras)
- SQL, MySQL, PL/SQL
- Tableau
- Unix/Linux

AWARDS & AFFILIATIONS:

- Vanderbilt University Football Video Services (2020-Present)
- Shippensburg University Division II Baseball Team (2015-2019)
- Selected to the Google Cloud Academic All-District Team (2019)
- Won the Division II Athletic Directors Association Academic Award (2017-2019)
- Named a Pennsylvania State Athletic Conference Scholar-Athlete (2015-2019)