Jake Byford

https://jakebyford.github.io/portfolio/

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Analytical problem solver who seeks to interpret data to make decisions and answer questions while communicating findings effectively.

Education

- **New Jersey Institute of Technology** — Newark, NJ
  Master of Science in Data Science; GPA: 3.75 — *Dec. 2023*
- **Kean University** — Union, NJ
  Bachelors of Science in Finance; GPA: 3.7 — *May 2020*

Certifications

- **CompTIA Data+ Certification** — *Jan. 2024*
- **Rutgers University Data Science Certification** — *Nov. 2020*

Experience

- **edX, University of Pennsylvania** — Philadelphia, PA/Remote
  Teaching Assistant — *May 2021 - Present*
  - **Classroom Enrollment**: Maintained a classroom enrollment of 30 students in my section with a student retention rate improved over time by 20%
  - **Grading Efficiency**: Prepared and Organized for classroom activities such as coding exercises increasing their confidence by 90%.
  - **Tutoring**: Tutored students in group study sessions in the following subject areas Python, R, SQL, and Excel.
  - **Student Growth**: Improved student code using Git and presented to management finding yielding a 5% increase from employee appraisal.
- **United States Census Bureau** — Jackson, NJ
  Field Enumerator/Data Entry — *May 2019 - Oct. 2020*
  - **SQL Query Optimization**: Optimized data collection and analysis, resulting in a 99% collection rate, by using SQL to query and manipulate large datasets.
  - **Tableau Visualizations**: Used SQL, Python, and Tableau to create visualization based off the complex datasets.

Projects

- **Nintendo Sales Analysis**: Rolled out a comprehensive 2023 sales report using SQL, Pandas, and Python to identify trends such as Nintendo published 37% of the top 50 best-selling video games ever sold worldwide
- **TD Ameritrade Investment App**: Built an automated Python program with Pandas, BeautifulSoup, and Selenium that scrapes companies' financial data and stores it inside a SQL database to perform analysis against competitors
- **Starbucks Coffee Recommendation**: Deployed a Python Flask app with Pandas and BeautifulSoup to collect data in MongoDB and provide customer recommendations by way of the KNN algorithm, Cosine Similarity, and Collaborative/Content filtering techniques
- **School Registration App**: Final project for database management class with UI that incorporates Java, MySQL, and PHP allowing students to pick their classes

Programming Skills

- **Languages**: Python, R, SQL, Java, Javascript, C++, C, TeX, VBA
- **Technologies**: AWS, React, Anaconda, D3.js, Flask, Jupyter, Linux, D3.js, Leaflet, MongoDB, MySQL, Matplotlib, MiniTab,NumPy, Plotly, RStudio, SciPy, Scikit Learn, Tableau, Tensorflow