Jake Byford

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

EXPERIENCE

edX/University of Pennsylvania Teacher Assistant

MAY 2021 – Present Philadelphia, PA/Remote

- Orchestrate a typical class of 30 students in daily coding exercises, leading to weekly survey scores consistently exceeding 90% in terms of student confidence, in contrast to the average of 80% for my peers
- Provide tutoring to more than five students beyond regular class hours, ensuring their success in mastering problem-solving skills in SQL, Python, R, and Excel. This effort consistently leads to weekly survey ratings surpassing 90% in instructor knowledge, compared to the 85% average among my peers
- Improved over 100+ lines of code in different coding exercises with bugs through Git
 and presented findings to managers which led to a promotion in hourly pay by 5% YOY
 (\$1.30)

United States Census Bureau Field Enumerator / Data Entry

MAY 2019 – OCT 2020 Jackson, NJ

- Accomplished efficient data collection and analysis as measured by timely completion
 of assignments, resulting in a 99% data collection rate, by utilizing SQL to query and
 manipulate large datasets
- Demonstrated exceptional data management skills, including proficient data cleansing, transformation, and database maintenance, as measured by maintaining accurate and well-organized records
- Utilized SQL, Python, and Tableau to analyze and interpret complex datasets, enabling efficient data exploration, visualization, and extraction of actionable insights

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
- <u>Starbucks Coffee Recommendation</u> <u>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
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- <u>School Registration App</u> Final project for database management class with UI that incorporates Java, MySQL, and PHP allowing students to pick their classes

EDUCATION

New Jersey Institute of Technology

Newark, NJ

Master of Science in Data Science – Statistics (GPA: 3.67)

MAY 2024

Relevant Courses: Database System Design, Big Data, Statistical

Learning, Machine Learning, Probability Theory

Extracurriculars: Data Science Club President, Chess Club

Rutgers University

New Brunswick, NJ

Pata Science Bootcamp: Analytics & Visualization

NOVEMBER 2020

Kean University
Union, NJ

Bachelor of Science in Finance (GPA: 3.7)

MAY 2020

Extracurriculars: Academic Honor Society, Finance Club, Chess Club

Ocean County College Toms River, NJ

Associate of Science in Business

MAY 2018

SKILLS & INTERESTS

Computer: AWS, Anaconda, C/C++, D3.js, Flask, Jupyter, Linux, Leaflet, Matplotlib, MiniTab, NumPy, Plotly, React JS, RStudio, SciPy, Scikit Learn, Tableau, Tensorflow, VBA

Interests: Baseball, football, chess, church, career development, personal finance, cooking, video games