Khaliil Bouda

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Experience

Office of Graduate Engineering, UMD Graduate **Research Assistant**

- Applied Python and Tableau to analyze marketing and operational expenses, optimizing budget allocation and reducing costs by 16% in one year.
- Developed data-driven admission insights by analyzing application trends in Python and automating Tableau dashboards, cutting processing time by 20%.
- Led market research and demand forecasting for new engineering graduate programs, developing analytics-driven reports that helped secured funding and enabled successful program launches.

July 2023 - December 2024

Freddie Mac - Master's Capstone Project **Data Scientist**

- Led a team of data scientist students in extracting, cleaning, and modeling complex mortgage data using Python and statistical techniques
- Built predictive ML models to assess 60-day loan default risk, identifying key factors influencing borrower defaults
- Delivered final model and analysis to Freddie Mac analysts and their product team, providing insights to support their risk assessment framework and decision-making process

September 2024 - December 2024

Information Technology, UMD **Assistant Lead Technician**

- Promoted from General Technician to Assistant Lead, managing IT issues, hardware procurement, and optimizing store location using foot traffic data, boosting sales by 30% in one month.
- Redesigned IT workflows in ServiceNow and launched a training program, cutting resolution time by 25% and improving team performance.

September 2022 - May 2023

Office of Graduate Engineering, UMD **Communications Assistant**

- Enhanced social media strategies using data analysis, boosting follower engagement by 30% and increasing program visibility.
- Managed and ensured the accuracy of student and alumni data in Excel, supporting outreach initiatives.

October 2021 - May 2023

Academic Projects

Airbnb Booking Rate Prediction **Data Mining Project**

Collaborated with a team of ML analysts to develop a supervised ML model predicting high-booking Airbnb listings. Analyzed rental trends to help hosts optimize location selection and pricing.

2024 Academic Year

UMD Baseball Analytics **Database Management Project**

Served as the lead database developer, designing a scalable SQL database and data pipeline to centralize team and player performance data. Built queries and Tableau dashboards to enable a real-time performance metric analysis product.

2023 Academic Year

Education

University of Maryland, Smith School of Business
M.S. Business Analytics

December 2024

University of Maryland, College of Information Studies
B.S. Information Science, Data Science Minor

Relevant Coursework

Cloud Computing, Database Systems, Data Mining, Python Data Processing, Machine Learning

Technical Skills

Certificates

Google Data Analytics Professional Certificate

Programming & Data Querying

Python (Pandas, NumPy, Scikit-learn, PySpark, TensorFlow), R, SQL (BigQuery, PostgreSQL, MySQL)

Analytics & Experimentation

A/B Testing, Statistical Modeling, Causal Inference

Machine Learning & AI

Predictive Modeling, Feature Engineering, Supervised & Unsupervised Learning, Deep

Honors and Awards

Dean's List: Spring 2022, Fall 2022, Spring 2023