

Bryan C. Johns

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Portfolio: johbry17.github.io/portfolio

Data Analyst & Communicator | Scientific Mind, Human Touch

I read data like a scientist and a room like a bartender. With a global lens and hands-on experience, I bring curiosity, critical thinking, and human-centered storytelling to every analysis. I build models that perform—and insights that connect. Fluent in Python, SQL, and human.

Data Science & Technical Training

George Washington University

- Data Analytics Boot Camp

Google Certificates (via Coursera)

- Advanced Data Analytics
- Data Analytics

Harvard / edX (cs50 Series)

- CS50x: Introduction to Computer Science
- Python • R • SQL • Cybersecurity • Web Development
- Artificial Intelligence (AI)

Education

M.A., International Affairs – American University, Washington, DC

M.A., Natural Resources & Sustainable Development – UN University for Peace, Costa Rica

B.A., International Development, – Evergreen State College, WA

- Study Abroad: University of Minnesota, Jaipur, India

Experience

Supervisor and Lead Bartender

Tonic Restaurant, LLC

2012 - Present

Washington, DC

- Boosted sales by 20–30% and cut staffing costs 25% by designing and hosting a popular weekly trivia night that improved customer retention and streamlined scheduling
- Managed up to 20 staff and reconciled nightly financials up to \$25K
- Trained staff and solved complex problems in a dynamic, multicultural workplace. Led with clear communication and fast thinking—skills now applied to structured, data-driven analysis

Projects

Cyclistic Analytics | User Conversion Analysis | github.com/johbry17/Cyclistic-Analytics

R • Tidyverse • R Markdown

Analyzed 5.8M ride records to uncover key user behavior: casual riders averaged 20-minute weekend rides, while members averaged 12-minute commutes. Highlighted electric bike growth and geographic segmentation across Chicago.

Impact: Informed targeted marketing and membership strategies.

Classified: At Risk | Attrition Prediction | github.com/johbry17/Salifort-Employee-Churn-ml

Python • Scikit-learn • XGBoost • SHAP

Developed a classification model (96.7% accuracy) to predict employee attrition. Selected XGBoost for best recall (0.94) and precision (0.87), minimizing attrition blind spots while reducing false positives. Used SHAP for model explainability and cross-validated with Logistic Regression and Random Forest.

Impact: Identified high-risk groups by tenure, workload, and satisfaction—actionable for HR teams.

Capital Crashpad | DC Airbnb Dashboard | github.com/johbry17/DC-AirBnB-Data

Python • PostgreSQL • Flask • Leaflet.js

Built a geographic dashboard mapping pricing and occupancy trends in DC's short-term rental market. Connected a PostgreSQL-Flask backend to dynamic JavaScript visualizations.

Impact: Delivered a clear tool for policymakers and hosts to understand regulatory and market dynamics.

Technical Skills

Languages: Python, R, SQL, JavaScript

Visualization: Matplotlib, Seaborn, Plotly, Leaflet, ggplot2, Tableau

ML & Modeling: Scikit-learn, XGBoost, SHAP, TensorFlow/Keras

Data Wrangling & EDA: pandas, NumPy, Tidyverse

Databases: PostgreSQL, SQLite, MongoDB

Web Dev & Scraping: Flask, Django, REST APIs, Beautiful Soup

Dev Tools: Git, Jupyter, RStudio, VS Code

Publications

[PES and REDD+: The Case of Costa Rica](#)

Analyzed the economic impact of Costa Rica's Payments for Environmental Services program, assessing its effectiveness in contributing to global efforts in climate change mitigation.

Languages

Spanish: Working Proficiency

Hindi: Elementary Proficiency