

# Bryan C. Johns

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Portfolio: [johbry17.github.io/portfolio](https://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

## 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** | [github.com/johbry17/Cyclistic-Analytics](https://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](https://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.

### **DC Short-Term Rental Explorer** | [github.com/johbry17/DC-AirBnB-Data](https://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, Tableau, ggplot2

**ML & Modeling:** Scikit-learn, XGBoost, SHAP

**Databases:** PostgreSQL, SQLite, MongoDB

**Data Cleaning & EDA:** pandas, NumPy, Tidyverse

**Web:** Flask, Django, 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