Brigitte Yan

Data Analyst

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About Me

📊 **I am an analytical and motivated Data Analyst with extensive experience in SQL, Python, Pandas, and Tableau. I excel in developing and maintaining data pipelines, delivering meaningful insights, and building robust data models.** 🖥 **With strong problem-solving skills and excellent communication, I make complex data insights accessible to all audiences and am committed to driving data-backed decisions.** 📈

Skills

Programming — Python, SQL, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Statsmodels, SciPy, SQLite.

Platforms — VS Code, PGAdmin4, MySQL, Jupyter, AWS, Snowflake, Tableau, Power BI, Excel, Figma.

Integrated Data & Project Management Skills — Database Management, Storytelling with Data, Project Management, UX Design, Version Control (GIT), Customer-Centric Approach, ETL, Agile Methodologies.

Advanced Data Analysis & Statistical Techniques — Experimental Design, Hypothesis Testing, Data Wrangling & Visualization, PCA, Regressions, Clustering, ANOVA, Correlation, Correspondence Analysis, KPIs.

Projects

05/2024   **Heart Failure Excel Analysis & Dashboard,** *Key skills: Data Analysis & Visualization, Inferential Statistics, Excel Dashboard.* ⧉
- **Developed an Excel dashboard** presenting critical insights for ~5,000 heart failure patients, highlighting correlations between mortality rates and variables like age and lab measurements.
- **Summarized patient KPIs** to help viewers quickly grasp trends and make data-driven decisions.

04/2024	**E-commerce ETL & Analysis,** *Key skills: Database Design & Management, SQL, PGAdmin4, Snowflake, Python, ETL.* ⬀

- **Demonstrated advanced ETL skills** by refining data with PGAdmin4 and PostgreSQL, and transferring it to Snowflake for analysis, uncovering valuable business insights.
- **Showcased database design expertise** by normalizing data from CSV files into structured tables and establishing primary and foreign key relationships.

04/2024	**Biking The Bay Area,** *Key skills: Python, SQLite, API Querying, Data Parsing, Correlation Analysis, Data Visualization, Linear Regression, Hypothesis Testing, Correlation.* ⬀

- **Analyzed bike-sharing data from the CityBikes API,** integrating location details from Foursquare and Yelp APIs.
- **Conducted data exploration and visualization** to identify key trends and provide actionable insights into usage patterns.
- **Performed regression modeling** to examine correlations between bike station attributes and proximity to points of interest, using hypothesis testing to validate findings.

04/2024	**An Analysis of Aircraft-Wildlife Strikes in the Continental U.S.,** *Key skills: Tableau, Python, Data analysis & Visualization.*

- **Developed a Tableau dashboard** to visualize trends in FAA wildlife-aviation collision data (2000-2019) for the Continental U.S.

Education

03/2023 Toronto, Canada	**Data Science,** *Lighthouse Labs* ⬀

- **Key topics:** Data Wrangling & Analysis, Data Engineering, Data Visualization, Machine Learning, LLMs, QA, Statistical Modelling.

2019 Halifax, Canada	**Bachelor of Environmental Design Studies (BEDS),** *Dalhousie University* ⬀

- **Architecture Major.**
- **Relevant courses:** Building Science, Design, Professional Development.

2016 Toronto, Canada	**Hon. Bachelor of Science,** *University of Toronto*

- **Ecology & Evolutionary Biology Specialist; Mathematics Minor.**
- **Relevant courses:** Statistics, Linear Algebra, Multivariable Calculus, Complex Variables, Intro to Computer Science, Independent Research Project.

Professional Experience

03/2022 – 06/2022 Toronto, Canada	**AllianceOne,** *Customer Service*

- **Explained interest and principal payments** to clients, clarifying loan amortization schedules and offering personalized repayment strategies.
- **Managed title and interstate transfers** for leased vehicles, ensuring accurate payment scheduling and compliance with state regulations.

- **Key Skills:** Financial Literacy, Client-Centric Service, Knowledge of Company Procedures, Government Regulations.

06/2019 – 03/2020
Mississauga, Canada

Graziani + Corazza Architects Inc., *Project Coordinator*
- **Designed buildings** in compliance with municipal bylaws and client requirements, utilizing in-depth knowledge of zoning regulations and site constraints.
- **Adjusted condominium unit plans** based on client feedback, optimizing for comfort, accessibility, and functionality.
- **Produced digital 3D models of buildings** and sites to evaluate design integration within their surroundings.
- **Key Skills:** Architectural Design, Zoning Bylaws Knowledge, Accessibility Design, AutoCAD, Digital 3D Modeling.

Royal Ontario Museum

07/2017 – 08/2017
Toronto, Canada

Herbarium Technician
- **Digitized over 8,000 plant specimens** with a teammate using advanced imaging techniques and meticulous metadata organization, contributing to the creation of a comprehensive public database on Canadensys ⧉ .
- **Key Skills**: Database Management, Digital Photography, Data QA, Process Streamlining.

06/2015 – 08/2016
Toronto, Canada

Research Student
- **Led an extensive study with over 100 herbarium specimens**, overseeing experimental design, data collection, statistical analysis, and writing a research paper.
- **Created an open database on Morphobank** ⧉ by employing advanced imaging techniques and meticulous metadata entry for the specimens used in the study.
- **Collaborated on a peer-reviewed paper** ⧉ **and effectively communicated research findings** at the OE3C ⧉ and Botany ⧉ conferences.
- **Key Skills:** Data Collection & Analysis, Experimental Design, Hypothesis Testing, Scientific Communication, Peer Collaboration, Database Management, Excel.

Courses

04/2024
Canada

Introduction to Canadian Customs & Border Procedures,
Canadian Society of Customs Brokers ⧉

08/2020
Toronto, Canada

UX Design, *BrainStation* ⧉
- **Key skills:** Design Thinking, UX Personas, UX Research, User & Task Flows, Interaction Design, Information Architecture, Interviewing.

03/2015
Syracuse,
United States

Adirondack Forest Ecology, *University of Western Ontario, SUNY-ESF*
- **A two-week field course** in the Adirondacks focused on forestry and ecology.
- **Conducted an independent research project**, which involved experimental design, data collection, analysis, and the writing of a comprehensive research paper.

Publications

25/10/2021   **Niche Shifts, Hybridization, Polyploidy and Geographic Parthenogenesis in Western North American Hawthorns (Crataegus subg. Sanguineae, Rosaceae),** *Agronomy* ⬈