Bryan Zamora Montero

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Experience

Digital Innovation & Data Engineering Intern, Doosan Bobcat, Fargo, ND   01/2025 – Present

- Automate the **OpenAPI** documentation workflow by designing and deploying a **CI/CD pipeline** using **GitHub Actions**, ensuring continuous integration of **OpenAPI** specs to Scalar documentation site, which improves documentation reliability and cut update time by 40% for the developers across more than 20 distinct teams.
- Design the schema of a **NoSQL DynamoDB** owner and entitlements data to a normalized **SQL** schema by designing scalable relational data models, streamlining production data operations and facilitating faster, more accurate dataset access for end users.
- Develop real-time **tactical** and **operational dashboards** by integrating and visualizing IoT equipment data for 30+ users, enabling optimized equipment performance reviews and data-driven fleet management decisions.
- Audit and maintain data models, dashboard solutions, and documentation across **AWS QuickSight Suite** and **Redshift**, reducing time to IoT data consumption by 50% and improving data trust and reporting efficiency across teams.

Student Technician Manager, ITS Solution Center at Concordia College, Moorhead, MN   08/2024 – Present

- Demonstrate technical expertise by diagnosing, troubleshooting, and resolving software, and network (Wi-Fi) issues for 20–40 students and faculty per week, which improves overall service reliability and reduces downtime for end users.
- Manage and train a team of 5–8 student technicians per shift, providing mentorship, overseeing task delegation, and fostering a collaborative environment, which increases team **productivity** and motivation, ensuring consistent, high-quality support delivery.

Climate Data Intern, Sustainability Office at Concordia College, Moorhead, MN   08/2023 – 05/2025

- Oversaw greenhouse gas (GHG) **inventory data** for a college of ~2,000 students, ensuring data accuracy and quality through data management in preparation for submission to the Sustainability Indicator Management & Analysis Platform (SIMAP), which guarantees lasting data accessibility.
- Analyzed and enhanced campus-wide sustainability initiatives by leveraging GHG inventory data to develop targeted informational resources, increasing participation in sustainability programs and empowering **data-driven decision making** across the college.
- Reported campus-wide GHG inventory findings using **PowerBI** data visualizations to illustrate GHG accounting and sustainability metrics, delivering actionable insights that guide the college's progress toward meeting overall sustainability goals.

Skills

- **PL & Frameworks**: Python | R | Java | JavaScript | SQL | Bash | TypeScript | PHP
- **Data Engineering & Analytics**: Power BI | AWS QuickSight Suite | Tableau | Pandas | NumPy | DBT | ETL Pipelines | Data Mining | Feature Engineering | EDA | ggplot2 | caret | MASS | dplyr | tidyverse | lubridate
- **Cloud, Services & DB**: AWS Redshift | DynamoDB | Snowflake | MySQL | RStudio | ArcGIS Pro |
- **Practices & Development Tools**: OOP | Agile | CI/CD | RESTful API | documentation | Git | GitHub | GitHub Actions | API Integration | Jupyter | VS Code | Jira | Confluence

Technical Projects

Twin Cities, MN Airbnb Data Engineering Project - *Back End Development -*   GitHub Repository

- Implemented a Python **ETL** pipeline using **Pandas** and **NumPy** to extract, clean, and transform raw Airbnb listings and reviews data for enhanced analytical readiness.
- Automated batch uploads of processed Airbnb listings and reviews to AWS DynamoDB using **boto3**, enabling scalable and cloud-native data storage for downstream applications.

Harry Potter API Exploration - *End-to-End -*   GitHub Repository

- Developed a Python-based **ETL** pipeline to extract, transform, and clean data from the public Harry Potter API, automating data ingestion and processing workflows.
- Integrated and loaded processed data into a **MySQL** database for efficient storage and querying, demonstrating full-cycle automation and database management.

Fargo-Moorhead Housing Pricing - *End-to-End -*   GitHub Repository

- Performed **exploratory** data analysis and predictive **modeling** in **R** to uncover trends and pricing patterns in Fargo-Moorhead housing market data.
- Developed an interactive **Shiny** app in R to visualize key drivers of housing prices and enable users to explore market trends dynamically

Education

Bachelor of Arts, Concordia College, Moorhead, MN.   Exp: December 2025
Double Major in Computer Science (Data Analytics) and Environmental Studies (Sustainability).

Relevant Coursework: Intro to Database Management | Data Mining | Applied Statistical Models | Forecasting | Web Design and Programming

Certifications: Ready for SAFe® by Scaled Agile, Inc | Learning Amazon Web Services (AWS) QuickSight by LinkedIn | Introduction to Web APIs by LinkedIn | DBT Fundamentals by DBT |