

# Yamileth Rodriguez

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Bachelor of Science in Statistics*

Student Athlete on Woman's Rowing Team

Champaign, IL

Aug. 2018 – May 2022

## EXPERIENCE

### Technical Consultant – Intern

Feb 2022 – Aug 2022

*MKR*

*Champaign, IL*

- Worked on building ETL pipelines and data ingestion workflows for the company's data platform using Python and SQL, resulting in a 25 percent reduction in query time.
- Deployed complex interactive dashboards and reporting tools to track key performance indicators, resulting in an improvement in data visualization and communication with clients based on user surveys.
- Designed and implemented data models and schemas for the company's data warehouse using PostgreSQL.
- Collaborated with cross-functional teams to streamline business processes and increase operational efficiency while focusing on system design principles and long-term scalability, resulting in a 17 percent reduction in expenses over Q1 - Q2.

### Nucleic Acid Programming Lab - Data Analyst

Sep. 2018 – May 2022

*University of Illinois at Urbana-Champaign*

*Champaign, IL*

- Conducted rigorous quantitative analysis to estimate the detection limit of novel designer DNA nanostructure-based COVID-19 sensors using plate-reader data in Python, achieving a sensitivity of 1 pM
- Synthesized technical findings into clear, concise results to deliver weekly presentations to P.I. Xing Wang and his chemistry graduate students using Microsoft Office Suite.

### Cognitive Neuroimaging Laboratory - Lab Assistant

Oct. 2021 - May 2022

*University of Illinois at Urbana-Champaign*

*Champaign, IL*

- Conducted qualitative analysis and summarized results of various cognitive experiment protocols during lab meetings, resulting in improved experimental design and methodology.
- Prepared participants for fMRI and EEG/ERP recording sessions, achieving a 91 percent success rate in data collection.

## PROJECTS

### MTG Card Tracker | *Node.js, Express, MongoDB, JavaScript*

Jan. 2023 - March 2023

- Built a RESTful API using Node.js and Express that serves Magic: The Gathering card data in order to streamline the process of finding and comparing card information.
- Designed and developed a web application that consumes the API to allow users to search, browse, and view card details.
- Used MongoDB as the database to store and query card information. Implemented authentication and authorization with JSON Web Tokens (JWT).

### Vegan AI | *Python, SQL, Hadoop, Kafka, PySpark, AWS*

June 2022 – March 2023

- Developed a recommendation system to provide users with select plant-based snack recommendations based on user input and historical data for top-selling vegan snacks on Amazon.
- Built a real-time streaming data pipeline using Apache Kafka and Apache Spark to process and analyze Amazon e-commerce data.
- Designed and implemented a scalable data processing workflow using AWS Glue and Amazon Redshift, resulting in a 50 percent reduction in data processing time.

### Forecasting House Property Sales | *R, Python, DataBricks, Numpy, Git*

Apr. 2022 - May 2022

- Analyzed and interpreted data to identify trends and patterns in customer behavior for housing trends.
- Developed a predictive model to forecast sales using time-series analysis – ARIMA models.
- Communicated findings in technical report and leveraged this data to provide recommendations for future business decisions.

## TECHNICAL SKILLS

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**Languages:** SQL, Python, Java, Scala, Bash, R, TypeScript, .NET, JavaScript

**Technologies:** MySQL, PostgreSQL, Oracle, SQL Server, MongoDB, Cassandra, AWS, GCP, Azure

**Big Data:** Hadoop, Spark, Hive, Pig, MapReduce, Kafka, NiFi

**Data Warehousing:** Redshift, Snowflake, Google BigQuery