

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 & Iced Green Tea Matcha Fan

Champaign, IL

Aug. 2018 – May 2022

EXPERIENCE

Technical Consultant – Intern

MKR

Feb. 2022 – Aug. 2022

Champaign, IL

- Developed ETL pipelines and data ingestion workflows using Python and SQL, streamlining the company's data platform and achieving a 25 percent reduction in query time.
- Created complex interactive dashboards to track key performance indicators, enhancing communication with clients and demonstrating strong data visualization abilities.
- Designed and implemented data models and schemas for the company's data warehouse using PostgreSQL, displaying expertise in database management and organization.
- Collaborated with cross-functional teams to optimize business processes and boost operational efficiency, resulting in a 17 percent reduction in expenses over Q1 - Q2, as well as highlighting teamwork and strategic thinking.

Nucleic Acid Programming Lab - Data Analyst

University of Illinois at Urbana-Champaign

Sep. 2018 – May 2022

Champaign, IL

- Conducted rigorous quantitative analysis using Python to estimate the detection limit of novel designer DNA nanostructure-based COVID-19 sensors, achieving a sensitivity of 1 pM.
- Delivered weekly presentations to Principal Investigator Xing Wang and his chemistry graduate students, synthesizing technical findings into clear, concise results using Microsoft Office Suite and showcasing effective communication skills and the ability to convey complex information to diverse audiences.
- Utilized advanced statistical techniques and data visualization tools to effectively communicate research findings, demonstrating the ability to present data-driven insights to inform decision-making.

Cognitive Neuroimaging Laboratory - Lab Assistant

University of Illinois at Urbana-Champaign

Oct. 2021 - May 2022

Champaign, IL

- Conducted qualitative analysis and summarized results of various cognitive experiment protocols during lab meetings, effectively applying problem-solving and critical thinking skills to improve experimental design and methodology.
- Prepared participants for fMRI and EEG/ERP recording sessions, achieving a 91 percent success rate in data collection, showcasing a strong attention to detail and commitment to delivering high-quality results.
- Adapted to evolving research priorities and project requirements, exhibiting flexibility and resilience in a fast-paced, dynamic environment.
- Assisted in the development of research proposals and grant applications, showcasing strategic thinking and the ability to identify potential opportunities for growth and impact.

Legal Intern

Mil Mujeres

Aug. 2020 - Dec. 2020

Chicago, IL

- Contributed to a non-profit legal organization dedicated to providing immigration legal services, focusing on empowering women and promoting social justice, serving over 300 clients during the internship.
- Assisted in the preparation of case files, affidavits, and supporting documentation for 15 clients seeking various forms of immigration relief, demonstrating attention to detail and adherence to high-quality standards.
- Actively participated in 30+ client meetings and consultations, gathering essential information to assess case viability, and ensuring client needs were met with empathy and professionalism.
- Supported the organization in streamlining processes and identifying opportunities for improving efficiency, leading to a 10 percent increase in case processing efficiency during the internship, showcasing adaptability and a proactive approach to driving results.

PROJECTS

ETL Pipeline for Mobile Application | *Python, AWS, PostgreSQL, Test-Driven Development, Tableau* March 2023

- Developed a Python-based data extraction process that read JSON messages from an AWS Simple Queue Service (SQS) Queue, ensuring the accurate and efficient retrieval of user login data.
- Implemented data transformation logic using Python's hashlib library to securely mask Personally Identifiable Information (PII), such as IP addresses and device IDs, using the SHA-256 hashing algorithm.
- Loaded the processed data into a PostgreSQL database using batch insert methods, optimizing the process for both small and large batches of records to maintain high performance and scalability.
- Successfully delivered a robust and efficient solution that exceeded the customer's expectations while maintaining the highest standards of data security.

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 PySpark to process and analyze Amazon e-commerce data.
- Designed and implemented a scalable data processing workflow using 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

Languages: SQL, Python, Java, R

Technologies: MySQL, PostgreSQL, Oracle, SQL Server, MongoDB, AWS, GCP, Azure, PowerBI, Tableau

Big Data: Hadoop, Spark, MapReduce, Kafka

Data Warehousing: Redshift, Snowflake, Google BigQuery