

# SIDNEY J REYNAUD, JR.

## DATA SCIENTIST

### CONTACT

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### Portfolio

<https://github.com/sjreynaud>

### EDUCATION

#### ***Master of Science, Data Analytics***

#### ***Concentration in AWS***

GPA 3.92

*Purdue University Global*

#### ***Bachelor of Science, Analytics***

GPA 3.94 Summa cum laude

*Purdue University Global*

### VISUALIZATION & STORYTELLING

- Power BI, Tableau, Python
  - Looker Studio, Excel,
  - Python

### DATA ANALYSIS

- Python (Pandas, NumPy, Matplotlib, Seaborn)  
Adaptability  
SQL, Excel, Google Sheets

### SUMMARY

Experienced laboratory leader transitioning to data science. Combine 10+ years of quality-driven lab operations and team leadership with a Master's in Data Analytics (AWS). Skilled at turning operational and experimental data into reproducible, stakeholder-ready insights using Python, SQL, Tableau/Power BI, SHAP/LIME, and cloud tools. Seeking clinical data science roles focused on predictive modeling, interpretability, and actionable dashboards.

### PROJECTS

- **FSGS Kidney Disease** – Modeling disease progression and treatment response using clinical and genomic data.
- **Bipolar Disorder** – Analyzing mood episode patterns and classification models to support psychiatric decision-making. (Ongoing)
- **Schizophrenia** – Exploring symptom clusters and model transparency to enhance understanding of disease trajectories. (Ongoing)
- **Prostate Cancer** – Investigating survival outcomes and biomarker significance through end-to-end analytics pipelines. (Ongoing)
- **Colon Cancer** – Applying feature importance and visual storytelling to uncover key drivers of patient outcomes. (Ongoing)
- **Spectrum (Autism)** - Modeling the developmental trajectories of emotional intelligence in autistic children using multimodal behavioral and contextual data. (Ongoing)

### PROFESSIONAL EXPERIENCE

#### **Laboratory MEGA Project Supervisor | Sasol North America | 2017–2019**

- Designed and implemented a data-driven shift-coverage model for a 5–4 rotating 24-hour schedule, optimizing manpower allocation and reducing technician idle time and sample turnaround by ~20%.
- Built and maintained performance dashboards tracking technician KPIs, test throughput, and quality metrics to identify bottlenecks and prioritize training.
- Analyzed inventory and purchasing patterns to forecast consumable needs, reducing stockouts and lowering supply costs through vendor consolidation and reorder-point automation.
- Authored reproducible SOPs and training curricula with version-controlled documents, improving procedural adherence and reducing test errors.
- Partnered with unit managers to translate lab analytics into product adjustments, ensuring daily quality targets and reducing rework.

## **PREDICTIVE MODELING & ETL ENGINEERING**

- Scikit-learn, XGBOOST
    - SHAP & LIME
  - Survival Analysis
  - Privacy Safeguards
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## **DATA MODELING & ETL INFRASTRUCTURE**

- AWS Cloud Technologies
    - GitHub
  - Jupyter Notebooks
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## **CLOUD TECHNOLOGIES & INFRASTRUCTURE**

- Power Query (M)
    - DAX
  - Star Schema Design
    - ETL Processes
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## **DATA SCIENCE PROJECTS**

- Breast Cancer Survival
  - FSGS Kidney Disease
    - Bipolar Disorder
    - Schizophrenia
    - Colon Cancer
  - Spectrum (Autism)
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## **Laboratory Supervisor — West Lab | Sasol North America | Jun 2017–Sep 2019**

- Implemented statistical monitoring of productivity and quality metrics, enabling targeted coaching and a measurable increase in throughput and retention.
- Created standard dashboards for daily standups that visualized defect rates, turnaround time, and technician performance to drive continuous improvement.
- Led hiring and onboarding strategy informed by historical performance analytics to align skills with peak workload windows.
- Conducted root-cause analyses on recurring quality issues and implemented corrective actions tracked via change logs.

## **Laboratory Superintendent (Acting) | Sasol North America | Jan 2019–May 2019**

- Acted as analytics liaison during West Lab commissioning, consolidating test results, timelines, and resource models to produce an actionable startup plan.
- Developed contingency and risk models (timeline, budget, prerequisites) used to minimize commissioning delays and unplanned costs.
- Coordinated cross-functional data flows between operations, maintenance, and QA to ensure traceability and reproducibility of commissioning records.

## **Laboratory Manager — Delegation | Sasol North America | Nov 2017–Apr 2019**

- Performed structured data audits and compliance reviews to ensure regulatory alignment and data integrity across lab systems.
- Standardized reporting templates and introduced metadata capture practices to improve reproducibility and downstream analysis readiness.
- Implemented KPIs and periodic reporting cadence to leadership, improving visibility into operational and quality trends.

## **Laboratory Step-Up Supervisor — East Lab | Sasol North America | Jan 2012–Jun 2017**

- Reviewed and validated analytical outputs for accuracy and compliance, maintaining data integrity across high-volume testing.
- Applied statistical quality control techniques to reduce variability and demonstrate process capability improvements.
- Led updates to SOPs informed by trend analysis of errors and nonconformances, decreasing repeat incidents.