Jesutoba Lopez

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SUMMARY

Business Intelligence and Data Analytics professional experienced in SQL analytics, operational KPI monitoring, dashboard development, and data engineering across payment and insurance systems. Proficient in SQL, Python, Tableau, Power BI, Grafana, and Databricks, with hands-on experience building automated data pipelines, validating data quality, investigating operational anomalies, and optimizing reporting workflows. Developed 100+ operational dashboards, improved database performance by 20%, and reduced manual data processing time by 40%. Holds an MS in Computer Science and Quantitative Methods (Predictive Analytics), with expertise in statistical analysis, regression, and data modeling.

SKILLS

- **SQL and Databases:** SQL, SQL Server, PostgreSQL, MySQL, Databricks, Elasticsearch (NoSQL), query optimization, schema design, data modeling
- **BI and Visualization:** Tableau, Power BI, Grafana, Kibana, Excel (pivot tables, lookups), dashboards, reports, KPIs and metrics reporting
- **Statistics and Analytics:** hypothesis testing (t-test, chi-squared), regression, correlation analysis, forecasting, time series analysis, anomaly detection, exploratory data analysis, ad hoc analysis
- **Scripting:** Python (pandas, NumPy), R, Java, Bash
- **Data Engineering:** ETL (extract, transform, load), data pipelines, Apache Airflow, Apache Spark, data validation, data quality checks, Logstash
- **Cloud and Tools:** AWS, Azure, Terraform, Docker, Git, GitHub, Jupyter

EXPERIENCE

AI Fellow (Contract) | Handshake AI | Remote | Aug 2026 – Present

- Evaluate AI-generated documents, spreadsheets, and presentations against structured scoring criteria, identifying factual inaccuracies, reasoning errors, and instruction-following failures.
- Author 65 fail-to-pass and regression test cases and reference solutions for 15 coding benchmark tasks to measure the accuracy of LLM-generated code.

Data Engineer | Guardian Life Insurance | Bethlehem, PA | Jun 2025 – Aug 2025

- Built and automated 5+ ETL data pipelines in Databricks using Python and SQL, moving Phoenix, Zeus, and Salesforce data into analytics-ready datasets and accelerating machine-learning model development by 30%.
- Ran 15+ production workflows processing 500K+ records per day at a 99%+ success rate.
- Wrote Python and SQL automation that replaced manual steps and cut data processing time by 40%.
- Built data validation and data quality checks so analytics and machine-learning teams worked from accurate, consistent data.
- Gathered requirements from data scientists and subject-matter experts and turned them into structured datasets.
- Rebuilt a legacy Excel VBA form, cutting processing time and resolving all identified compliance security vulnerabilities.

Software Engineer (Data and Analytics) | Nigeria Inter-Bank Settlement System (NIBSS), Nigeria's central payment infrastructure provider | Lagos, Nigeria | Jul 2022 – Aug 2024

- Built and maintained 100+ Grafana dashboards and alert policies tracking KPIs, system performance, and application health across national payment systems.
- Built log and event data pipelines on Logstash, Elasticsearch, and Kibana, analyzing operational data to surface trends and anomalies and speed root-cause analysis.
- Wrote and tuned SQL queries and database schemas, improving database performance by 20%.
- Automated manual data workflows with Python, SQL, and Logstash, improving operational efficiency by 80%.

- Defined service level indicators and objectives (SLI and SLO) metrics across 20+ services so engineering and business stakeholders measured reliability in the same way.
- Used root-cause analysis of incident data and blameless post-mortems to drive a 30% reduction in production incidents.

Graduate Teaching Assistant | Austin Peay State University | Clarksville, TN | Aug 2024 – May 2026

- Taught SQL-based data analysis, Python, statistics (hypothesis testing, regression), and data visualization to 20+ students through tutoring and workshops.

Software Support Engineer | Formplus, an online form-builder platform | Remote | Jun 2020 – Mar 2022

- Resolved and triaged customer issues on a SaaS form-builder platform, including Google Sheets and payment integrations, escalating reproduced bugs to engineering.

Software Support Engineer | Narrowhills| Remote | Oct 2019 – Mar 2020

- Built Tableau dashboards and automated reports that improved service level agreement (SLA) tracking and service performance by 20%.
- Optimized SQL queries and database operations, cutting execution times from several hours to minutes.
- Analyzed customer-environment data to identify trends and recurring issues.

PROJECTS

- **Customer Intelligence Dashboard** (Tableau, SQL): interactive dashboards presenting KPIs, trends, and comparisons.
- **Travel Insights Dashboard** (Power BI, SQL, Python): reports on booking trends, top destinations, and seasonal patterns.
- **Sales Analytics Project** (SQL, Python, Power BI): cleaned, transformed, and visualized sales data across multiple branches to find performance trends.
- **Household Electricity Consumption Analysis** (Apache Spark, Python): regression analysis on 2M+ records predicting Global Active Power, reaching RMSE 0.0447 and R^2 0.998.

EDUCATION

MS, Computer Science and Quantitative Methods (Predictive Analytics) | Austin Peay State University | May 2026 | GPA 4.00/4.00

Relevant coursework: Applied Statistics, Regression Analysis, Experimental Design, Advanced SQL and Data Warehousing, Data Visualization

BSc, Quantity Surveying | University of Lagos | Oct 2018 | GPA 3.65/4.00

CERTIFICATIONS

- Data Engineering Foundations Professional Certificate, Astronomer, Aug 2025
- Data Science Certificate, Austin Peay State University, May 2026

TRAINING

- Learning Apache Airflow, LinkedIn Learning, Jul 2025

MEMBERSHIPS

National Society of Black Engineers