

Judith C. Martinez

Junior Data Engineer | Logistics, Maritime Operations Management Background

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Trolobubu

Profile

Recently graduated **Data Engineer** with a professional background in **logistics, maritime operations, and management**. Experienced in coordinating complex planning processes and KPIs, now focused on building data pipelines and analytics solutions. Skilled in Python, SQL, and PySpark, with hands-on projects involving Azure Databricks, data quality, and visualization. Passionate about transforming operational and maritime data into actionable business insights.

Experience

- May 2024 – **Crew Discipline Planner**, *Allseas*, Essen, Belgium
Present
 - Coordinate and plan crew schedules ensuring compliance with maritime regulations and project requirements.
 - Collaborate with HR and project managers to align crew availability with vessel rotations.
 - Applied data-driven forecasting to improve scheduling accuracy and reduce operational conflicts.
- Jun 2021 – **Planner**, *Eurojob*, Amsterdam, Netherlands
Apr 2024
 - Managed transportation and logistics planning for large-scale warehouse operations, specializing over the last two years in supermarket distribution chains.
 - Led a team ensuring process efficiency, quality control, and on-time deliveries.
 - Implemented KPI tracking and forecasting dashboards that improved operational efficiency by 15%.
 - **Skills:** Warehousing, Transportation Planning, Team Leadership, Forecasting, Quality Control, KPI Reporting, Process Optimization.
- Apr 2020 – **Account Specialist / Planner**, *Eurojob*, Rotterdam, Netherlands
Jun 2021
 - Oversaw client accounts and workforce allocation for multiple logistics projects.
 - Supported payroll processing and HR coordination for on-site teams.
 - Enhanced client satisfaction by improving communication and response time.
- Aug 2019 – **Order Picker / Transport Planner**, *PostNL*, Born, Netherlands
Apr 2020
 - Coordinated internal transport operations and assisted in logistics planning.
 - Responsible for daily order picking and ensuring accurate shipment preparation.
- Dec 2018 – **Administrative Backoffice / Material Planner**, *CES Gestiform*, Murcia, Spain
Feb 2019
 - Managed materials planning and administrative tasks for industrial projects.
 - Assisted in supply chain documentation and process optimization.
- May 2016 – **HR Officer / Training Technician**, *Unavia Formación SL*, Murcia, Spain
Oct 2018
 - Coordinated training programs and recruitment processes for partner companies.
 - Maintained employee records and ensured compliance with HR regulations.

Education

- Sep 2024 – Oct 2025 **Master of Computer Applications (MCA) in Big Data and Business Analytics**, *Universidad Complutense de Madrid*, Madrid, Spain
Skills: Microsoft Azure, SQL, NoSQL, MongoDB, Python, Tableau, Apache Spark, Azure Databricks, AWS.
- Sep 2019 – Jul 2020 **Master's Degree in Security and Loss Prevention Services**, *Universidad Nacional de Educación a Distancia (UNED)*, Madrid, Spain
Focus on risk analysis, data-driven prevention systems, and organizational resilience.
- 2013 – 2018 **Double Bachelor's Degree in Human Resources and Labor Relations, and Social Sciences**, *Universidad de Murcia*, Murcia, Spain
Graduated with emphasis on management, workforce analytics, and organizational development.

Data Engineering Projects

NMBS (SNCB) Developed an end-to-end data pipeline for NMBS/SNCB — *Nationale Maatschappij der Belgische Spoorwegen / Société Nationale des Chemins de fer Belges* — the Belgian National Railway Company.

Data Pipeline Integrated GTFS and XML transport data, processed using PySpark and Azure Databricks, and stored results in MongoDB. Deployed a FastAPI application to serve processed datasets and enable analytical queries through an API interface.

Spotify Data Analysis with Apache Spark Built a data processing pipeline using Apache Spark to analyze Spotify streaming data. Performed ETL operations for track, artist, and user data, applying transformations and aggregations to identify listening patterns and popular genres. Optimized performance with Spark SQL and DataFrames, and visualized results using Tableau and Matplotlib.

Text Mining Project Conducted text mining and natural language processing (NLP) on social media data to extract and classify professional-related mentions. Used Python, Pandas, and HuggingFace Transformers for preprocessing, tokenization, and classification. Applied exploratory data analysis and visualized insights to understand linguistic patterns and data distributions.

Water Pump Failure Prediction (DrivenData challenge) Participated in the DrivenData competition “Pump IT Up: Data Mining the Water Table”. Performed feature engineering, data cleaning, and model selection using scikit-learn and XGBoost to predict water pump functionality from sensor and environmental data. Improved prediction accuracy significantly beyond baseline. [View competition]

Data Quality and Governance Framework Developed automated data quality checks and metadata tracking to improve dataset reliability and auditability.

Skills

Data Tools Python, SQL, PySpark, Databricks, Airflow, Delta Lake, Azure, Tableau

Logistics / Maritime / Management Crew Planning, Forecasting, KPI Management, Process Optimization, Maritime Operations, Leadership

Soft Skills Analytical Thinking, Problem Solving, Team Collaboration, Project Management

Languages Spanish (Native or Bilingual Proficiency), English (Full Professional Proficiency), Dutch (Basic – A1)

Certifications

2025 – 2027 **SnowPro Associate: Platform Certification** — Snowflake

Credential ID:

163660898

Additional Information

Interests Maritime logistics, Data pipelines, Automation, Data visualization, Team management

Online Profiles

GitHub <https://github.com/Trolobubu>