



# Andrea Montes

Senior Data Engineer

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## Professional Experience

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**Senior Data Engineer I, Terminal Labs** **Remote** 05/2023 - Present

- Migration from legacy product to a lakehouse with a modern data stack. DBT + Dagster + Terraform + AWS + Iceberg tables + Python + Looker. Transition from updates every 8 days to daily updates.
- Enforced fail fast mindset to the team, focused on having a good test environment, deployments to production got from 2 weeks cycle to twice a day.
- Added observability features to improve debug time from 2 days to 15 mins. Green/blue deployments across +250 clients.
- Worked on a SQL Glot tool to port Postgres SQL to ANSI SQL, ported +500 client reports in 3 days. Added data audits to ensure consistency after migration.

**Data Engineer II, Terminal Labs** **Remote** 04/2022 - 05/2023

- Classification algorithm to standardize events categories, workflow status and sentiment evaluation across +250 clients. Deployment with AWS Batch and CI/CD pipeline. Save +40 hour per week in manual classification. 98% accuracy.
- Migration from raw SQL to DBT models. Improved data updates from 4-6 to  $\approx 1$  day. Added data audits. DMS + Step functions + Lambda functions for multi-tenant applications.
- Python + DBT + data modeling + Airflow + Buildkite + Looker. Improved data quality to 95%.

**Data Engineer I, Globant** **Bogotá, Colombia** 09/2021 - 04/2022

- Supported DWH star schema environment, orchestration process with Step + Lambda functions in AWS. Added automation of deployment process. Unit/component/integration/E2E testing.
- Added Gitlab CI/CD pipeline, reducing production errors by 30%.

**QA Senior Automation Engineer, Globant** **Bogotá, Colombia** 09/2019 - 09/2021

- Automated tests for web platforms and mobile environments with Robot Framework, scripting. Test coverage increased by 60%.
- Design of tests cases. Jenkins continuous integration. Scrum methodology.

## Education

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**BSc Electronics Engineer** *Universidad Nacional de Colombia* **Bogotá, Colombia** 2012-2017

Relevant Courses: Software and Hardware, Digital Signal Processing, Control Systems, Microcontrollers, Power Electronics, Telecommunications, Data Structures, Algorithms, Programming, Mathematics

**Visitor Scholar** *Purdue University* **Indiana, USA** 2017

Research project on synthesis of nanostructured materials and design, development and delivery of acquisition system for electromigration phenomena. Scholarship program UREP-C between Universidad Nacional de Colombia and Purdue University.

## Skills

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- **Orchestration:** Airflow, Dagster, AWS Step Functions
- **ETL:** dbt, Iceberg tables, Postgres, Trino (Starburst), Snowflake, Airbyte, AWS stack: DMS, Glue Jobs, Lambda Functions, EC2, Batch, RDS
- **Deployment:** Docker, Kubernetes, CI/CD
- **Data Visualization:** Looker, Superset
- **Soft Skills:** Planning, Organized, Creative Problem-Solving, Teamwork, Active Listening, Adaptability, Analytical Thinking

## Languages

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- **English** [Fluent]
- **Spanish** [Native]