




# Andrea Montes

Senior Data Engineer

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## Professional Experience

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### Senior Data Engineer I, *Qventus*

Remote 08/2024 - Present

- Designed and implemented a star schema for milestones data mart to track progress of patients through their hospital journey
- Transitioned from 2 work days for validation changes in core business models to automated process, available immediately after the change.
- Increased test coverage for core business models from 50% to 80%

### Senior Data Engineer I, *Terminal Labs*

Remote 05/2023 - 08/2024

- 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, dbt Cloud
- **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, Team Work, Active Listening, Adaptability, Analytical Thinking

## Languages

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- English [Fluent]
- Spanish [Native]