FERNANDA VILELA

Sr Data Engineer

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🐦 @alyxvance

WHO AM I?

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EXPERIENCE

4/2023 – 9/2024   **Sr Software Eng. | Data Ingestion Platform**   **Nubank**

On Data Ingestion team we are responsible for:
- Maintain more than 10 services in order to ingest data from a myriad of sources into Nubank's Data Lake
- Develop new data incremental ingestion platform following the Data Mesh concept of decentralisation and ownership, ingesting more than 25 bi events per day

```
Scala / Spark / DeltaLake / Clojure / AWS / Kafka / Kubernetes /
Databricks / BigQuery
```

3/2022 – 3/2023   **Data Engineer | Data Platform**   **Loft**

- Develop and maintain the Data Platform and tooling for the Data Scientists and Data Analysts in the company
- Use Stitch ETL tooling for Data Ingestion integrating with over 100 Data Sources of 10+ kinds (PostgreSQL, MySQL, Salesforce, Pipefy, MongoDB)
- Use Databricks, AWS Firehose and Python/Spark Applications/Packages to ensure Data Governance, Anonymization, and ease Data Promotion to the Analytical Layers in our Data Lake
- Tune Spark and Cluster configs to enhance performance and cost/scalability of ETL jobs
- Mentor other engineers, mainly on diversity groups, on career and technical issues

```
Python / FastAPI / Spark / Databricks / DeltaLake / AWS / SQL / Docker
/ StitchETL
```

8/2021 – 2/2022   **Data Analytics Engineer**   **Pagar.me**

- Maintained and developed the ETL flows inside Pagar.me's Data Warehouse called Tesseract (merging business rules, engineering, and data quality)
- Implemented data quality monitoring to data transformation flows
- Created automations inside the team, speeding up and ensuring quality of the main processes
- Improved the technical level of the existing systems, solved technical debt, solved architectural problems and improved system design

```
Tableau / SQL / Airflow / AWS / Docker / Python / Data Modeling /
DataDog / NodeJs
```

9/2020 – 12/2021
part time
   MLOps Software Engineer   **NextCam**

- Design and build the MLOps application for Nextcam's main product, improving the performance of training of new models and tunning of old ones
- Design, create, and deploy the CI/CD for all Nextcam's applications
- Improve quality/architecture practices in the Engineering team
- Develop product strategy

```
FastAPI / Python / Postgres / AWS / Docker / NodeJS / Typescript /
ReactJS / Heroku
```

EDUCATION

2011 – 2017   **Electrical Engineering, BSc.**   **Universidade de Brasília**

Graduation Thesis: Typography Pattern Recognition System (python, openCV, scikit-learn, dataset composition and image processing)
Prof. Dra. Mylène C.Q. Farias

2014 – 2015	**Electrical and Electronic Engineering, Interuniversity Exchange Bachelor** Brunel University London
	Graduation Thesis: Queue Simulation for H264 Video Codec (Matlab).
	Prof. Dr. John Cosmas.

LANGUAGES

English - native
German - proficient
Polish - rudimentary

HOBBIES

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NON PROFIT

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