

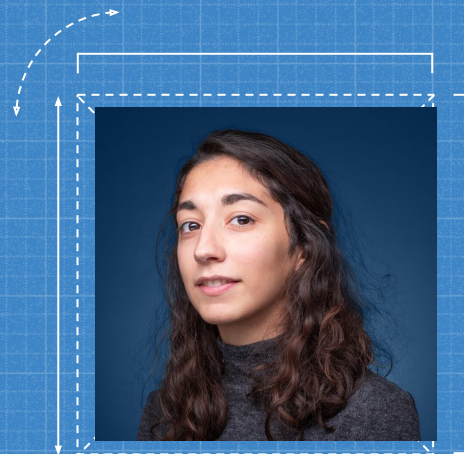
The text is framed by a series of white dashed lines and arrows on a blue grid background. A horizontal dashed line with arrowheads at both ends is positioned above the text. A vertical dashed line with arrowheads at both ends is positioned to the right of the text. A curved dashed line with an arrowhead is in the top right corner. Another curved dashed line with an arrowhead is in the bottom left corner.

HOW I BECAME AN ANALYTICS ENGINEER

Hello world!

I AM VICTORIA PEREZ MOLA

I am here because I want
to share how I found a
job that I love.



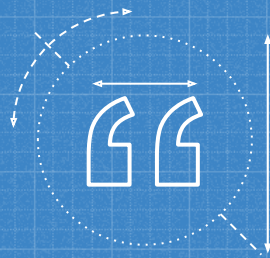


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THE ANALYTICS ENGINEER ROLE

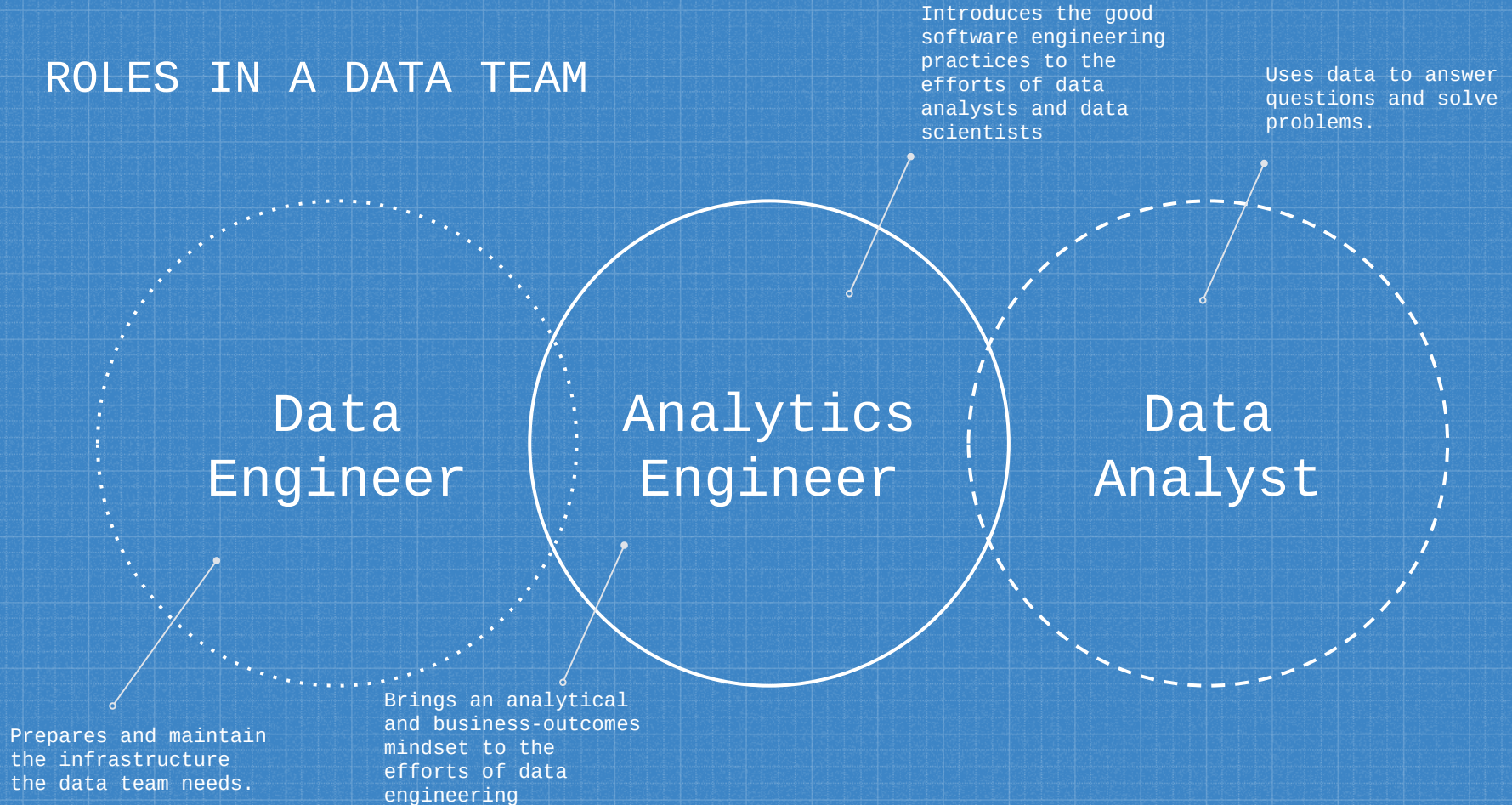


Let's start with the
important stuff



**"We are looking for an expert in
building out analytical data
layers to join the band and help
drive a data-first culture across
the ad-supported business in
Spotify"**

ROLES IN A DATA TEAM



RESPONSIBILITIES



Data Engineer

- Build custom data integrations
- Manage overall pipeline orchestration
- Develop & deploy machine learning endpoints
- Build and maintain the data platform
- Data warehouse performance optimizations

Analytics Engineer

- Provide clean, transformed data ready for analysis
- Apply software engineering best practices to analytics code (ex: version control, testing, continuous integration)
- Maintain data documentation & definitions
- Train business users on how to use data visualization tools

Data Analyst

- Deep insights work (ex: why did churn spike last month? what are the best acquisition channels?)
- Work with business users to understand data requirements
- Build critical dashboards
- Forecasting

TOOLING

ETL tools like Fivetran, etl or Stitch

Cloud data warehouses like Snowflake, Bigquery, Redshift

Data Storing

Data loading

Data modelling

Tools like dbt or Dataform

BI tools like Looker, Mode or Tableau

Data presentation



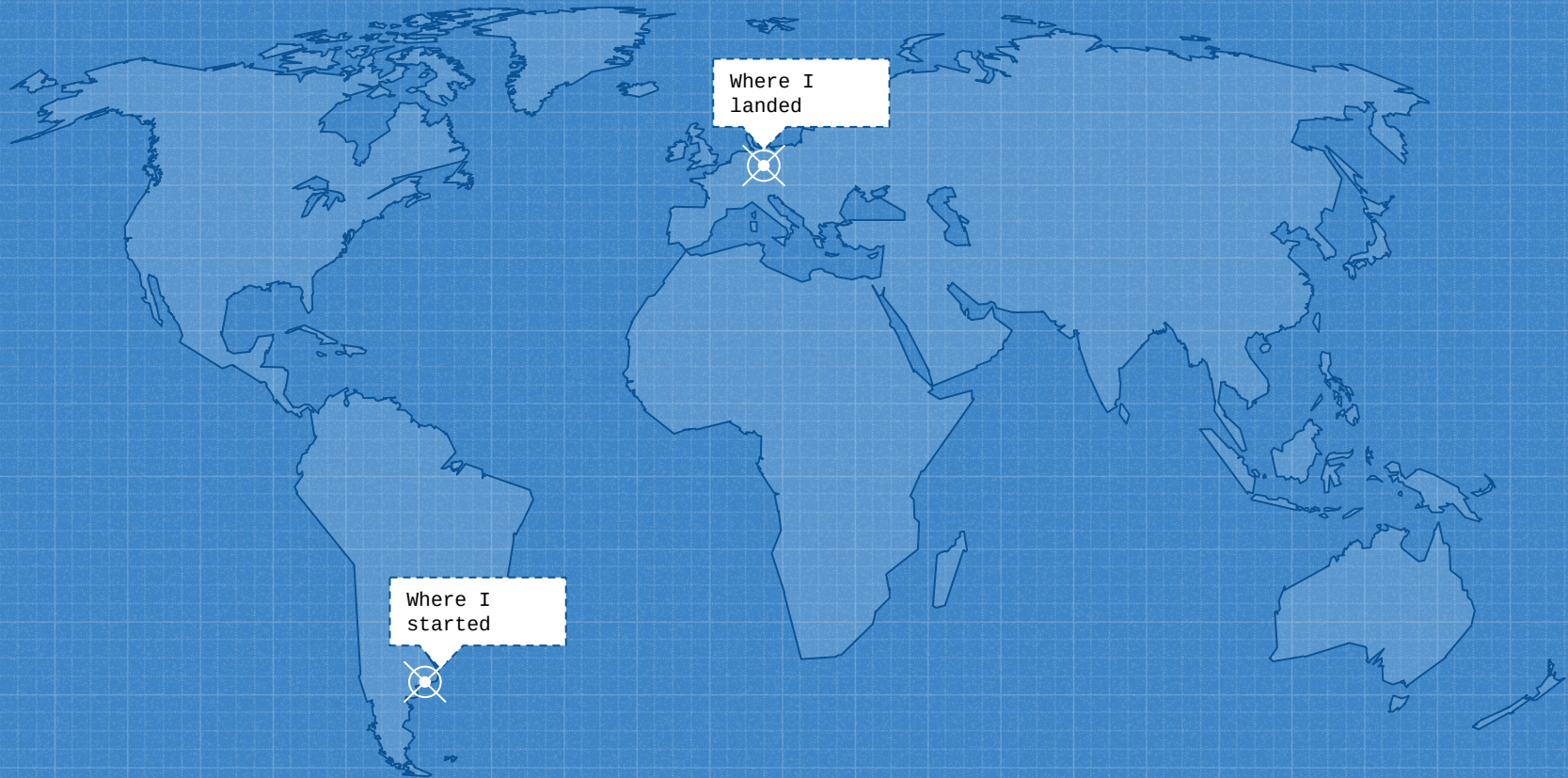
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HOW DID I GET TO THE ANALYTICS ENGINEER ROLE



Let's get personal

MY GEOGRAPHIC JOURNEY



MY TECHNICAL JOURNEY

Started studying
Systems Engineer

2010

Finished
University

2015

Moved to Berlin &
started working as
IT systems
specialist

2018

Started working as
Analytics Engineer

2020

First job in IT as
a Technical and
functional
implementer

2014

Started working
as a consultant

2015

Changed jobs
to SQL developer

2019



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HOW CAN YOU GET TO THE ANALYTICS ENGINEER ROLE



Let's get to the useful
stuff



LET'S REVIEW SOME CONCEPTS



Databases

General understanding about relational databases and data warehousing concepts.



Data modelling

- Relational model
- Kimball's Dimensional Modelling
- Inmon data modelling
- Data Vaults



SQL

From basic queries to CTEs and window functions.



Data pipelines

ETL vs ELT



Reporting

General knowledge on how to present the data using data visualisation tools.



Good practices

Software engineering best practices for code development.

Thanks!

ANY QUESTIONS?

You can find me at:



@victoriapm



@victoriaperezmola

CREDITS

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by [SlidesCarnival](#)
- Photographs by [Unsplash](#)
- [The Analytics Engineer](#) by [Michael Kaminsky](#)
- [Analytics Engineering at Spotify](#)
- [Analytics at Netflix: Who We Are and What We Do](#)
- [What is Analytics Engineering?](#)
- [Analytics readings](#)