

Tomas Carvalho

Analytics Engineer • Data Engineer

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Summary

Analytics Engineer with over 8+ years of experience building and optimizing data solutions, collaborating with international and agile teams. Proven experience with business requirement gathering, multi-dimensional data modeling, SQL query optimization, ETL/ELT data pipelines, report/dashboard development, and Python for data analysis, visualization, and API development.

Skills: Python, SQL, dbt, AWS, Google Cloud Platform, OLAP (Redshift, BigQuery), PostgreSQL, Tableau, Looker Studio, Git (Github/GitLab), Docker, Terraform, Agile (Scrum), GIS (PostGIS, GeoPandas, GDAL, QGIS).

Work Experience

Gridwise

Remote - USA

Analytics Engineer

Sep 2024 - Present

- Test, monitor, and report on data quality.
- Own and maintain BI and data visualization tools.
- Collaborate with product and engineering teams to launch new software and analytics solutions and products.
- **Tech:** Python, dbt, SQL, GCP (BigQuery, GKE), Looker, Grafana, Looker Studio, Git (Github)

Greenpeace International

Remote - Global

Senior Business Intelligence Developer

June 2023 - Sep 2024

- Collaborate with international teams to identify, evaluate, gather business requirements, and translate the organization's needs into technical solutions and processes.
- Own and develop web analytics data pipelines, optimize SQL queries and pipelines performance, implement versioning control and CI/CD routines, and develop dashboards for the International (Netherlands-based) office.
- Own the design, development, and maintenance of data models, metrics/KPIs, and dashboards for senior and C-level marketing stakeholders to drive key business decisions for the USA office.
- **Tech:** Python, dbt, SQL, AWS (Redshift), GCP (BigQuery), Tableau, Looker Studio, Git (Github, GitLab), Asana, Scrum

OnAgri

Remote - Brazil

Software Engineer - contract

Aug 2023 - Aug 2024

- Translating business requirements into data modeling, designing and developing cloud infrastructure and APIs for geospatial products (satellite images, climate, and fertilizer recommendation) for farmers and bio-energy companies.
- **Tech:** Python, PL/SQL, AWS (VPC, EC2, RDS, API Gateway, Lambda, S3, ECR), Terraform, Docker, Github

Stockholm Environment Institute

Stockholm - Sweden

Data Scientist

May 2021 - May 2023

- Developed analytics dashboards for model quality assurance, data exploration, and KPIs presentation.
- Performed ETL processes to define international trade, agriculture, and socio-environmental data analysis metrics.
- Produced data-driven reports and led webinars for non-technical audiences.
- **Tech:** Python, PostgreSQL/PostGIS, AWS (S3, EC2, ECS, ECR, ElasticBeanstalk, RDS), Git/Github, Metabase, Docker, Asana

Institute of Forest and Agriculture Management and Certification

Piracicaba - Brazil

Geospatial Data Analyst

July 2018 - May 2021

- Developed multi-dimensional data models and performed ETL on data for Brazil's soy, beef, and timber supply chains.
- Co-created a full-stack app to track 180+ sustainable farms in the Amazon region, benefiting managers and donors.
- Collaborated on multi-million USD projects supported by NASA/USAID, Moore Foundation, and NORAD.
- **Tech:** Python, PostgreSQL/PostGIS, JavaScript, ReactJS, Node.js, Git/Github, Bash, Google Earth Engine, QGIS, ArcGIS, Scrum

Geospatial Data Analyst, Intern

Nov 2016 - July 2018

- Developed data modeling, ETL, and analysis on tabular and spatial data producing impactful ESG reports.
- **Tech:** Python, PostgreSQL/PostGIS, Git/Github, Google Earth Engine, QGIS, ArcGIS, Scrum

Languages

English

FLUENT

Spanish

ADVANCED

Portuguese

NATIVE

Education

University of São Paulo (POLI-USP)

POSTGRADUATE DEGREE, Data Engineering & Big Data

São Paulo - Brazil

2023 - 2024

University of São Paulo (ESALQ-USP)

BACHELOR OF SCIENCE, Environmental Management

Piracicaba - Brazil

2015 - 2018

Certifications

2024 Tableau Desktop Specialist

Tableau Software

2023 AWS Certified Cloud Practitioner

Amazon Web Services

2023 dbt Fundamentals

dbt Labs

2023 TOEFL iBT Exam - 108/120

ETS

2022 Lakehouse Fundamentals

Databricks

2020 TOEFL iBT Exam - 101/120

ETS

Courses

2024 Introduction to Analytics Engineering - 40 hours

Analytics Engineers Club

2022 Getting started with AWS Glue

Amazon Web Services

2022 Databases: Advanced Topics in SQL - 20 hours

Stanford University

2022 Databases: Semistructured Data - 16 hours

Stanford University

2022 Data Engineer - 73 hours

DataCamp

2021 Data Scientist (Python) - 88 hours

DataCamp

2020 Full-Stack JavaScript - 160 hours

Rocketseat

2020 Spatial Data Science: The New Frontier in Analytics - 30 hours

ESRI

2019 Tableau Software - 16 hours

Keyrus

Volunteer Experience

University of São Paulo - Teaching Assistant

Piracicaba - Brazil

Three disciplines related to Geospatial technologies and Environmental Impact Assessment for 150+ students

2016 - 1 year

Orphanage Home of the good boy

Piracicaba - Brazil

Help in the 'Planting and Learning' Orphanage's Project which has a socio-environmental pedagogical approach

2015 - 20h