

Tomas Carvalho

Senior Data Analytics & Business Intelligence Engineer

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Summary

A Senior Data Analytics Engineer passionate about technology and sustainability, over the last 7+ years, I have been thriving on turning data into actionable insights and empowering business decision-making toward efficiency and sustainability.

Skills: Python, SQL, dbt, AWS, Google Cloud Platform, PostgreSQL, Tableau, Looker Studio, Metabase, Git (Github/GitLab), Docker, Terraform, GIS (PostGIS, QGIS, Google Earth Engine, GeoPandas).

Work Experience

Greenpeace International

Remote - Global

Senior Business Intelligence Developer

Jun 2023 - Present

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

CNPq

Remote - Brazil

Software Engineer

Ago 2023 - March 2024

- Translating business requirements into OLTP data model, designing and developing cloud infrastructure and APIs for geospatial products (fertilizer recommendation system and satellite images) for farmers and bio-energy companies
- **Tech:** Python, AWS (CLI, 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/ELT 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

Jul 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 150+ sustainable farms in the Amazon region, benefiting managers and donors
- Collaborated on multi-million USD Agile 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 - Jul 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

Education

Georgia Institute of Technology

Georgia - USA

MASTER OF SCIENCE, Computer Science

2024 - 2026

University of São Paulo (POLI-USP)

São Paulo - Brazil

POSTGRADUATE DEGREE, Data Engineering & Big Data

2023 - 2024

University of São Paulo (ESALQ-USP)

Piracicaba - Brazil

BACHELOR OF SCIENCE, Environmental Management

2015 - 2018

Languages

English

FLUENT

Spanish

FULL PROFESSIONAL PROFICIENCY

Portuguese

NATIVE

Courses & Certifications

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|------|--|--------------------------|
| 2024 | Introduction to Analytics Engineering - 40 hours | Analytics Engineers Club |
| 2023 | AWS Certified Cloud Practitioner | Amazon Web Services |
| 2023 | dbt Fundamentals | dbt Labs |
| 2023 | TOEFL iBT Exam - 108/120 (valid until feb 2025) | ETS |
| 2022 | Getting started with AWS Glue | Amazon Web Services |
| 2022 | Lakehouse Fundamentals | Databricks |
| 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 | TOEFL iBT Exam - 101/120 | ETS |
| 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

Task forces to implement organic gardens and agroforestry systems

Americana - Brazil

Help 20+ needy rural smallholder families to implement food production systems

2011-2013

World-Wide Opportunities on Organic Farms (WWOOF)

Córdoba - Argentina

Working on an organic farm, helping with organic vegetable gardening and organic waste management

2013 - 2 weeks

Hobbies and Interests

- Hiking and running
- Yoga and meditation
- Reading novels and poems