Tomas **Carvalho**

Data Analytics Engineer • Business Intelligence Engineer

✉ tomas.jpeg@gmail.com | 🔗 LinkedIn | 🌐 Portfolio | ⬤ Github

Summary

Data Analytics Engineer with over 7+ 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 (GCP), Tableau, Looker Studio, Git (Github/GitLab), Docker, Terraform, Agile (Scrum), GIS (PostGIS, QGIS, Google Earth Engine, GeoPandas).

Work Experience

Greenpeace International
Remote - Global

Senior Business Intelligence Developer — June 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 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 — Ago 2023 - June 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, 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

Education

Georgia Institute of Technology
Georgia - USA

MASTER OF SCIENCE, Computer Science — 2024 - 2027

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 Sciences — 2015 - 2018

Languages

English
FLUENT

Spanish
ADVANCED

Portuguese
NATIVE

Courses & Certifications

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