Ítalo Vinícius

Software Engineer, focused on data engineering and dataops.

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📍 Brasília, Brazil

Summary

Results-driven Software Engineer currently pursuing a Software Engineering degree at the University of Brasília. Specializing in full-stack development, data engineering, and DataOps, with a proven track record in data architecture using AWS and GCP. Proficient in PostgreSQL databases, web development technologies like React, Express, NestJs, and ORM tools such as TypeORM and Sequelize. Adept at leveraging GCP (Google Cloud Platform) and skilled in Oracle database management and Oracle APEX page development. Demonstrated success in diverse projects, including software development, data pipelines, and data analysis. Possesses strong leadership and teamwork skills, excels in problem-solving, and is well-versed in data processing methodologies. Additionally, boasts advanced English proficiency to facilitate effective communication in international settings.

Experience

Software engineer at Ministério da Saúde

Jan 2023 - Present

Remote

- User interface development in VueJS and React.
- Backend server implementation with Fastify in NodeJS environment.
- Handling and processing large-scale data using PySpark.
- Participation in requirement elicitation and translation into software specifications.
- Development of data pipelines and integration with PostgreSQL, DuckDB, and AWS.
- DevOps practices for software lifecycle automation.
- Configuration and management of PostgreSQL databases on AWS.
- Collaboration with multidisciplinary teams to ensure data security.
- Development of real-time reporting systems and dashboards.

Data Engineer at A3Data

Nov 2023 - Present

Remote

- Implementation of different data architectures
- Development of data pipelines (Airflow and Glue Workflows)
- Implementing Cloud Computing solutions (AWS, GCP)
- SQL, Shell Script, Python, Spark
- SQL and NoSQL databases (RDS, S3, Redshift, Athena, BigQuery)
- SQL database modeling and architecture

- ETL tools (PySpark, Nifi, Apache Airflow)
- Data Lake and Data Warehouse implementation
- Implementation of data cataloging tools (DataHub, OpenMetadata, Glue)
- Implementation of data quality tools (Great Expectations, SODA)
- Focus on data governance
- Development of Terraform scripts for infrastructure as code
- Development of CI/CD pipelines and services (Airflow and Grafana)

Data Engineer at Embraer

Jul 2023 - Nov 2023

Remote

- Development of the Data Ecosystem Project
- Implementation in Cloud Computing solutions (AWS, GCP)
- SQL, Shell Script, Python, Spark
- SQL and NoSQL databases (SQL Server, Oracle, Google Cloud databases, SAP)
- SQL database modeling and architecture
- ETL Tools (AecorSoft Data Integrator, PySpark, Nifi, Apache Airflow)
- Data Zone Ingestion and organization
- Building Analytical Dashboards in Power BI
- Power BI capacity administration
- DevOps

Software Engineer (Temporary) at Polícia Civil do Estado de Goiás

Mar 2023 - Jul 2023

Remote

- Developer of the Schedula project using agile methodologies such as Lean Inception, Scrum, XP
- Collaborated with clients on system requirements and validation of results
- Conducted training for students in software development methods, covering Git/Github, Docker, and Front-end/Back-end
- Proficient in communication, Docker, CI/CD, Typescript, Vue, React, Nestjs, agile methodologies, software requirements, Heroku, and PostgreSQL

Data Intern at Embraer

Nov 2021 - Jul 2023

Remote

- Power BI capacity administrator
- Creation of dashboards and dataflows in Power BI
- Analysis of data from IT teams

- Control of relational and non-relational data
- Automation of tasks, KPIs, spreadsheets, websites, and management systems
- Internal customer support

IT Intern at Tribunal de Contas da União

Jan 2021 - Oct 2021

Brasília, Brazil

- Oracle database management
- Development and management of Oracle APEX pages
- Optimization of database relationships
- Development and correction of JavaScript code

Researcher in Computer Vision at University of Brasília

Aug 2020 - Jan 2021

Brasília, Brazil

- Development and research of predictive models for road lane detection using convolutional neural networks and deep learning

Projects

Coletaço

Group project to assist recyclable material collectors

Technologies Used:

- JavaScript
- React Native
- ExpressJS

GitHub Repository:

- https://github.com/italovinicius18/Coletaco

Stag.io

Group project to assist recyclable material collectors

Technologies Used:

- JavaScript
- React Native
- ExpressJS

GitHub Repository:

- https://github.com/UnBArqDsw2021-2/2021.2_G3_stag.io_Frontend
- https://github.com/UnBArqDsw2021-2/2021.2_G3_stag.io_Backend

Resume

Build a website resume using a file in YAML format

Technologies Used:

- Python
- Jinja2
- YAML

GitHub Repository:

- https://github.com/italovinicius18/resume

Ludo.io

A simple ludo game using React, Express, and Socket.io

Technologies Used:

- JavaScript
- React
- ExpressJS
- Socket.io

GitHub Repository:

- https://github.com/italovinicius18/ludo.io

Car Sales Analysis

Analysis of car sales from a specific dealership

Technologies Used:

- Python

GitHub Repository:

- https://github.com/italovinicius18/DataScience/blob/main/Cars%20price%20prediction/notebook.ipynb

User Reviews Analysis

Analysis of user feedback on a motorcycle model

Technologies Used:

- Python

GitHub Repository:

- https://github.com/italovinicius18/DataScience/tree/main/Moped%20Reviews

Traffic Sign Detection and Analysis

Analysis of traffic signs in the CARLA simulator using YoLo and Tesseract models

Technologies Used:

- Python

GitHub Repository:

- https://github.com/guilherme-mendes/TEES-Autonomous-vehicles

Appliance Behavior Analysis

Evaluation of the performance of an appliance based on data collected from the motor

Technologies Used:

- Python

GitHub Repository:

- https://github.com/italovinicius18/DesafioTractian/blob/main/Tractian.ipynb

Data Pipeline and Sentiment Analysis

Consumption of Telegram message data, streaming processing with Kafka and Spark, sentiment analysis, and storage in Elasticsearch

Technologies Used:

- Python

GitHub Repository:

- https://github.com/italovinicius18/PSPD/tree/main/ProjetoFinal/B

Skills

GCP (Google Cloud Platform) - BigQuery, Dataproc, Airflow, Nifi · AWS - S3, Redshift, Athena, Glue, EMR, Lambda, CloudWatch, CloudTrail, IAM, EC2 · JavaScript · TypeScript · React · ExpressJS · NestJS · TypeORM · Sequelize · PostgreSQL · Oracle Database · Analytics · DataOps · Python · C++ · Leadership · Teamwork · Problem Solving · English