

João Pedro Lopes Gonçalves

Python · SQL · AWS · ETL Pipelines · Oracle · PostgreSQL · Data Validation

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PROFESSIONAL SUMMARY

Computer Engineering student and Automation Engineer Intern at BTG Pactual, focused on data engineering, workflow automation, and enterprise data solutions using Python, SQL, AWS, ETL routines, Power BI, and Microsoft 365 tools to reduce manual work, improve data reliability, and support project decision-making.

PROFESSIONAL EXPERIENCE

Automation Engineer (Internship) | BTG Pactual · Remote | Jul 2026 – Present

- Part of a high-performance Automation Team focused on developing projects that deliver intelligence, scalability, and operational efficiency across the largest investment bank in Latin America.
- Design, develop, and maintain automation and data solutions using Python, PostgreSQL, and DynamoDB to streamline tactical workflows in the Operations division.
- Build and support data ingestion pipelines and automated data processes that serve business intelligence and operational decision-making.
- Implement and manage distributed systems and automations using AWS Cloud technologies including ECS, Lambda, SQS, SNS, S3, Secrets Manager, and API Gateway.
- Collaborate daily with stakeholders, business users, and technology teams to map operational bottlenecks, model tailored solutions, and align project expectations.
- Participate in user acceptance testing (UAT) and homologation processes to ensure software reliability, performance, and validation before production deployment.

Project Engineer Intern | TechnipFMC · Presencial | Sep 2024 – Jun 2026

- Developed and implemented automation solutions for engineering and project management workflows using Python, VBA, SQL, Oracle Database, and Microsoft 365 tools, reducing recurring manual activities by approximately 45%.
- Supported large-scale data management processes, including extraction, validation, transformation, and structuring of corporate data from Oracle databases, improving the reliability and consistency of project-related datasets.
- Built and maintained ETL routines, data transformation logic, corporate data structures, and recurring data validation processes for enterprise reporting, reducing report preparation time from 4 hours to less than 1 hour.
- Automated recurring data validation and workflow execution tasks, saving approximately 6 hours per month in repetitive checks across engineering and project management activities.
- Built and maintained Power BI dashboards using DAX, Power Query M, relational data modeling, table joins, and data transformation logic, reducing dashboard update time from around 2 hours to 30 minutes.
- Designed and explored AI-powered automation solutions, including LLM integrations and AI agents, to support data analysis, documentation review, workflow execution, and operational decision-making, accelerating document review activities by nearly 30%.
- Collaborated with engineering, project management, and cross-functional global teams to identify process bottlenecks, implement scalable digital solutions, and support international alignment in English.

TECHNICAL SKILLS

Data Engineering: Python, SQL, ETL Pipelines, Data Validation, Data Transformation, Oracle, PostgreSQL, DynamoDB

Cloud & DevOps: AWS (ECS, Lambda, SQS, SNS, S3, Secrets Manager, API Gateway), Git

Analytics & BI: Power BI, DAX, Power Query M, Advanced Excel, Data Modeling, Reporting

Automation & AI: VBA, Power Platform, Microsoft 365, LLM-based Automation, AI Agents

Programming & Tools: JavaScript, Java, VS Code, Relational Data Modeling

Professional Strengths: Complex Problem Solving, Workflow Optimization, Cross-functional Collaboration

Languages: Portuguese (Native), English (C1 / Advanced)

EDUCATION

B.S. in Computer Engineering | Instituto Federal Fluminense | Feb 2022 – May 2027 (in progress)

- Academic background focused on algorithms, software engineering, databases, operating systems, embedded systems, digital circuits, data structures, automation, and computational problem solving.

CERTIFICATIONS

Excel do Básico ao Avançado, Macro, VBA + Power BI | Udemy | Jan 2025

Python 3 do Básico ao Avançado | Udemy | Feb 2024

Power BI Completo - Do Básico ao Avançado | Udemy | Sep 2023