

Caio Valerio Goulart Correia

AI Specialist, Senior Data Engineer & Backend Developer

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AI Specialist and Senior Data Engineer with a strong background in software engineering, focusing on data science solutions and backend development. Expertise in Python and Java programming, with a proven ability to implement complex systems independently. Skilled in fostering collaboration with clients and teams to deliver innovative solutions.

SKILLS

Python · Java · TypeScript · Linux · Git · PostgreSQL · DevOps · Cloud · Data Engineering · Backend Development · Generative AI · LLMs · RAG · Prompt Engineering · Model Fine-Tuning · MLOps · MLflow · Azure Databricks · Azure SQL · CosmosDB · Docker · Kubernetes · API Integration · Data Governance · Security · Compliance · Azure AI Foundry · Azure ML · Power BI · AWS

PROFESSIONAL EXPERIENCE

AI Specialist

micro1 · Aug 2026 – Present

- Lead the development of Generative AI and LLM solutions, focusing on model alignment and fine-tuning.
- Design and implement RAG systems and AI governance workflows using Azure technologies.
- Benchmark AI code generation across multiple programming languages including Python and Java.

Full-Stack Developer & DevOps Engineer

ABZ Serviços · Jan 2025 – Present

- Developed EmployeeHub, enhancing operational efficiency by 40% through automation.
- Built data engineering pipelines integrating Azure services and established security compliance architecture.

Python Developer & Spatial Data Engineer

BRTech3D · Mar 2024 – Mar 2025

- Created high-performance data processing scripts for geospatial applications, significantly optimizing processing times.
- Engineered scalable data storage solutions on Azure Data Lake and PostgreSQL.

Topographical Survey Operator III (Laser Scanning)

Master Engineering Services · Aug 2023 – Mar 2024

- Operated 3D laser scanning equipment for precise data collection in industrial environments.

Topographical Survey Operator II

OffTech3D · Dec 2022 – Aug 2023

- Executed field data collection and implemented QA processes for data integrity.

Technical Documentation & Support Specialist

SmartStore / Jackkk Connection · Mar 2021 – Dec 2022

- Produced technical manuals and provided support for complex business proposals.

Training Specialist & Automation Technician

Jackkk Connection Comercial · May 2017 – Mar 2021

- Coordinated training for professionals in industrial automation and developed educational simulations.

Technical Team Lead & Specialized Support

Diesel Line Cambuí · Aug 2016 – May 2017

- Led teams in maintenance of large-scale engines and managed technical support for international clients.

Apprentice Technician

Diesel Line Cambuí · Oct 2015 – Aug 2016

- Supported commercial processes and ensured compliance in system maintenance.

EDUCATION

B.S. in Mechanical Engineering

UniFatecie

Technical Diploma in Industrial Automation

ETP Escola Técnica Brasil

RELEVANT PROJECTS

Painel ABZ

Next.js 15 · TypeScript · PostgreSQL · Supabase

Corporate operations portal for ABZ Group: HR, offshore crew management, payroll, reimbursements and internal comms on Next.js 15, React 18 and Supabase/PostgreSQL (50+ tables with RLS). Ships e-Social (13 events, RSA-SHA256 XML, SOAP mTLS), OCR (Tesseract) for ASO/ID docs, digital signatures, MIO ERP sync, and an AI companion with LiveKit voice, MS Graph and autonomous KPI agents.

<https://github.com/Caiolino00/EmployeeHub>

SGLang Commander

Python · FastAPI · React · PySide6

Desktop (PySide6) and web (React + FastAPI) console for SGLang inference servers. Starts and stops servers, streams multimodal chat (image/audio), plots live GPU/VRAM/latency metrics, deploys Hugging Face models in one click, runs P50/P95/P99 benchmarks, and supports Docker plus ZeroTier remote deploys.

<https://github.com/Caiolino00/sclang-commander>

Visualizador 3D FARO

Three.js · React · Open3D · MCP

Matterport-style web viewer for FARO Focus scans. Renders PTS/E57 point clouds and TrueView 360 panoramas with Three.js and React Three Fiber, plus dollhouse view, floor plans, distance measurement, annotations, auto-tours and a Model Context Protocol bridge so local LLMs can drive the 3D scene.

https://github.com/Caiolino00/Visualizador3D_Matterport_Clone

Gerador de Malha Open3D

Python · Open3D · NumPy

Desktop pipeline that turns industrial point clouds into production meshes: Poisson reconstruction, hole filling, density-based vertex cleanup, smoothing and export to PLY/OBJ/STL — built for geospatial and laser-scan workflows with 100M+ points.

https://github.com/Caiolino00/Projeto_Open_Mesh_

AD Migration Suite

C# · .NET 8 · WPF

Enterprise Active Directory migration from Windows Server 2012/2016 to 2019/2022. Agent-based architecture on a single port (8765) avoids WinRM/Kerberos setup, preserves SID history, replicates GPOs/OU's and migrates file shares with ACL translation across domains.

https://github.com/Caiolino00/AD_Migrator

Auditoria de Dados

Python · Pandas · Dash · Plotly

Server data-audit toolkit with parallel directory scans, file-type and growth analysis, caching and an interactive Dash/Plotly dashboard. Generates timestamped HTML and XLSX reports with client-level filters for large file-server inventories.

https://github.com/Caiolino00/Python_Audit_Script

Network Monitor

Python · Flask · PWA

Cross-platform network monitor (Windows, Linux, macOS, including Windows Server 2012) with live download/upload/latency, speed tests, history charts, PDF reports and PWA install for offline use on the LAN.

<https://github.com/Caiolino00/network-monitor>

TECHNICAL SKILLS

AI & LLM Engineering

Generative AI, LLMs, RAG, Prompt Engineering, Model Fine-Tuning, MLOps, MLflow, Azure AI Foundry, Azure ML.

Data Engineering & Backend

Python, Java, TypeScript, Backend Development, API Integration, Data Engineering.

Cloud & DevOps

Linux, Git, DevOps, Cloud, Docker, Kubernetes, AWS, Azure Databricks.

Databases & BI

PostgreSQL, Azure SQL, CosmosDB, Power BI.

Governance, Security & Compliance

Data Governance, Security, Compliance.

LANGUAGES

Portuguese: Native | English: Fluent (C1) | Spanish/Italian: Advanced technical reading.