

Douglas Soldan de Oliveira

AI Engineer | Agentic AI, RAG and Automation | Python | MCP | n8n

Brazil | Remote | Hybrid in São Paulo/Rio de Janeiro | Available immediately

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Summary

AI Engineer with 5+ years of software experience, combining Python, React/React Native and TypeScript with process automation. Since 2024, has built generative AI solutions involving agents, RAG, API integration and multi-provider orchestration. Creator of OR4CULO, an agent system with routing by cost, latency and complexity, memory, MCP-based Tool Use/Function Calling, acceptance criteria and execution verification. Applied experience in industrial automation, independent technology products and iOS/Android development. Mechanical Engineer, UNESP.

Technical skills

AI and automation: multi-step agents, multi-agent orchestration, RAG, embeddings, reranking, MCP, Tool Use/Function Calling, prompt engineering, LLM evaluation, observability, routing and provider fallback.

Models and platforms: Claude, GPT/Codex, Gemini, DeepSeek, Ollama and local models; LangChain, LangGraph, FastAPI, n8n, Docker.

Software and integration: Python, TypeScript, React, React Native, Next.js, Node/Express, REST APIs, PostgreSQL/pgvector, Supabase, Firebase, SQLite, MySQL, PHP, Git and Linux.

Selected projects

OR4CULO - Agent and RAG Orchestrator with Auto-Evolution

Feb 2026 - Present | Python · FastAPI · LangGraph · MCP · RAG · Docker

Multi-provider orchestration system for agents and local/cloud models, with routing by cost, latency and complexity. Includes multi-step workflows, memory, Tool Use/Function Calling, RAG, execution evidence, validation gates and acceptance criteria. Applied as the engine for CAD, BOM and plasma-cutting automation at CR Caldeiraria.

OR4CULO Terminal Remote - terminal.or4culo.com

Jul 2026 - Present | TypeScript · WebSocket · QR pairing · Docker

OR4CULO-derived product for secure remote access to a local terminal, with QR pairing, real-time relay, Host Daemon, flow tests and verification mechanisms for remote operation.

Zags Me - Mobile & Web Relationship Platform

Jun 2021 - Present | Independent Project | React Native · TypeScript · Firebase · PHP/MySQL

Independent product with a website and Android/iOS apps. Includes registration, photo uploads, real-time chat, geolocation, Firebase backend, PHP/MySQL APIs, and App Store/Google Play publication; later evolved with AI automation and integrations.

Buskee - AI-Powered News Analysis Platform

Dec 2025 - Present | React · TypeScript · Node/Express · Supabase

Full-stack platform for news analysis and rewriting, including source ingestion, bias classification, content generation, payments and model fallback. It also supports automated publishing workflows across the Zags ecosystem.

Palpee - AI-Generated Premium Reports

May 2026 - Present | React · TypeScript · Supabase · AI APIs

Digital product with on-demand AI-generated reports, authentication, billing, caching and integrations with the Zags ecosystem API. Uses AI for personalized readings and experiences.

Internal AI and automation tools

- PromptPilot: macOS desktop-automation proof of concept using AI.
- Multi-AI Chrome Extension: built between Dec 2025 and Jan 2026; integrates prompts and debate across multiple models, later incorporated into the ecosystem.
- Iterative Python optimization engine: built between Dec 2025 and Jan 2026 for profile/prompt calibration and optimization; later incorporated into Zags/OR4CULO.

Professional experience

AI Engineer - Industrial Automation with AI, CR Caldeiraria

Apr 2026 - May 2026 | Hybrid, São Paulo/remote

- Designed automations with Python, LLMs and agent orchestration on top of Excel VBA, AutoCAD and Inventor.
- Delivered PDF-to-DXF, DWG/DXF-to-PDF, BOM assembly with validation and 3D-to-DXF unfolding workflows.
- Reduced an operational batch from 2-3 days to approximately 3 hours.

Senior React Native Engineer / Mobile Tech Lead - OnSpot Travel Group

Sep 2024 - Oct 2025 | Hybrid

- Mobile technical leadership in React Native and TypeScript for a platform with 10,000+ users.

Senior React Native Developer - Brilliant Machine / Supergásbras

Oct 2023 - Sep 2024 | Hybrid, Rio de Janeiro, Brazil

- Developed a B2B sales application in React Native using Clean Architecture.

Software Engineering Consultant - Accenture

Jul 2020 - Oct 2021 | Remote

- Unilever (Aurora): developed with Ionic/Angular, Salesforce and React Native; led migration to React Native + TypeScript and technical onboarding for 8 developers.
- Santander (Pioneer): Angular + Oracle front-end work in a regulated banking environment under compliance and audit standards.

TCP Engineer - GE Energy (Hydro)

Nov 2015 - Apr 2019 | Taubaté, Brazil

- Designed hydroelectric fixtures and engineering improvements with an estimated BRL 579k financial impact in a single year.

CNPq Undergraduate Researcher - INPE and UNESP

2004 - 2006 | São José dos Campos/Guaratinguetá, Brazil

- Developed aerospace scientific software in FORTRAN and C; co-authored an international publication on Jupiter's satellites.

Recognition

- Project estimates explicitly attributed to Douglas Oliveira indicate approximately BRL 579k in a single year: BRL 516k in annual gains and BRL 63k in one-time savings; no multi-year accumulation.
- Modernized workstation performance, engineering automation, 3D parametrization and process digitalization.
- Quality Recognition, Best Practice and Best Facilitator - GE My Improvement Program.
- Project selected among the top 50 of 513 submissions worldwide.

Education and languages

- **UNESP - São Paulo State University:** B.Sc. in Mechanical Engineering, 2003-2010.
- **Certification:** Multiplatform Android/iOS Developer with React and Redux.
- **Portuguese:** Native. **English:** Professional working proficiency for technical reading and communication.