

Daniel Scheidemantel Camargo

Senior Backend Engineer

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Professional Summary

Senior Backend Engineer with 8+ years designing, building and operating high-traffic APIs, data pipelines and third-party integrations on AWS and GCP, with production experience in Python/Django alongside FastAPI and Flask. End-to-end technical ownership of complex platforms — from Brazil's 4th-largest travel search engine to an LLM-agnostic multi-tenant agentic SaaS platform built from zero to production — covering architecture, reliability, observability and performance. Forefront user of agentic AI in daily engineering: builds production multi-agent and RAG systems (Anthropic, OpenAI, Gemini; CrewAI, MCP; pgvector), and uses AI coding agents (Cursor, Claude Code, Codex) as a thought partner throughout the development workflow — from implementation to code review — while retaining judgement on architecture, business logic and security. Track record of driving reliability and performance improvements (25% API latency cut, 40% infrastructure cost cut, 92% cache hit ratio) and mentoring engineers on backend and AI-integration best practices.

Professional Experience

Senior Software Engineer – Platform & AI Integrations

[Mercado Livre](#)

Aug 2025 – Aug 2026 · LATAM

e-commerce & logistics, ~120k employees

- Integrated OpenAI APIs as autonomous decision-support agents into production logistics workflows; owned full lifecycle from prompt design and versioning through deployment, observability, and iteration
- Redesigned the logistics planning data-input workflow into guided, step-by-step automated stages, reducing human input errors by 17% and significantly improving operator throughput
- Designed and operated Python (FastAPI) backend services and ETL pipelines (Pandas/Polars on BigQuery) powering demand forecasting and capacity planning simulators used by operations teams
- Built and maintained CI/CD pipelines (GitHub Actions) with automated testing, structured observability (Datadog dashboards, Grafana metrics, logging and alerting) and progressive rollout strategies; mentored team members on AI integration patterns, LLM evaluation and Python backend best practices
- Front-end with React

Founder & Lead AI/Backend Engineer

[Capellaris AI](#)

Nov 2024 – Sep 2025

SaaS, agentic AI platform for SMBs

- Designed and built an LLM-agnostic multi-tenant agentic SaaS platform end-to-end, enabling SMBs to deploy specialised AI agents across business domains (marketing, finance, legal, HR, IT, operations)
- Built a full RAG pipeline: document ingestion, chunking, embedding generation, pgvector storage, hybrid search, reranking, and source-grounded answer generation — reused across all agent domains
- Implemented a multi-agent orchestration layer (CrewAI + MCP) with specialist agent decomposition, tool-calling, memory management, and context compression — reducing agent cognitive load by ~60% per context window while preserving full organisational document context across multi-turn workflows
- Delivered financial control agents that gave the pilot customer a unified view of financial planning across departments, replacing fragmented manual processes; pilot customer achieved up to 70% higher output precision on new project launches through specialist agent decomposition
- Full-stack with React and BFF in Node.JS

Senior Python Backend / Platform Engineer

[Buscaônibus](#) / [Travelier](#)

Apr 2021 – Jan 2025 · Brazil

travel meta-search and BI platform, 4th-largest in Brazil

- Owned sole technical responsibility for a high-traffic Python backend processing millions of passenger search queries daily across hundreds of bus operators; on-call, incident response, and full production lifecycle
- Led full platform modernisation: Python 2.7/App Engine to Python 3.10/FastAPI/CloudRun, cutting API latency by 25% and infrastructure cost by 40%
- Redesigned the entire caching layer to Redis with structured key management and full critical-path coverage, achieving a 92% cache hit ratio
- Built a Gemini RAG agent with engineered prompting to automate customer email triage and response generation, achieving 89% response accuracy and significantly reducing manual operator load; designed a route intelligence and demand analytics layer on BigQuery, delivered through interactive Plotly Dash dashboards (with Pandas/NumPy transformations) and complementary Looker Studio views used by commercial teams for pricing and route decisions
- Full-stack development with Node.JS, web app and React Native (Android/iOS Mobile App)
- A/B tests

Software Engineer – Integrations & Backend

[Portobello Group](#)

Dec 2019 – Apr 2021 · Brazil

ceramics manufacturing & retail, ~4,000 employees

- Led end-to-end CRM/ERP migration to Salesforce across 124 retail stores with zero downtime — flagship digital transformation milestone of 2021
- Built and maintained a regional fiscal discount simulator (Python/Django backend embedded in Salesforce), improving tax-rule compliance accuracy from 70% to 96%
- Designed Python backend integrations between Salesforce, on-prem ERPs and downstream microservices; operated Kubernetes CI/CD (Rancher + Jenkins)

Software Developer – Automation & Cloud

[Stormtech](#)

Aug 2018 – Nov 2019 · Brazil

consumer loans, regulated

- Built and owned a robotic integration layer connecting 18 financial institutions, automating data synchronisation and reducing manual operator dependency by 45%
- Developed a real-time RPA health monitoring dashboard (TypeScript), reducing mean response time to broken pipelines by 50%; built and operated an AWS-native platform: EC2, Lambda, Step Functions, DynamoDB, RDS-MySQL

Education

Master of Science in Applied Computing

[Santa Catarina State University \(UDESC\)](#)

Aug 2016 – Jul 2018 · Brazil

Distributed Systems, Cloud Computing, data-centre efficiency (6 peer-reviewed articles – full list of 13 publications: [Google Scholar](#))

Bachelor in Computer Science

[Santa Catarina State University \(UDESC\)](#)

Feb 2011 – Jul 2016 · Brazil

IoT, automation, energy efficiency (7 peer-reviewed articles)

Skills

Languages & Frameworks

Python, Django, FastAPI, Flask, Go, TypeScript, React, Node.js

Backend & APIs

REST API design, microservices, async workers, event-driven systems, API versioning, third-party integrations, ERP integrations, scalable backend systems

AI / LLM Engineering

LLM integration, Anthropic Claude, OpenAI GPT, Google Gemini, prompt engineering, prompt versioning, tool-calling, function-calling patterns, structured outputs, multi-agent orchestration, CrewAI, MCP, agent memory, context management, evaluation, observability, AI-native workflows

RAG & Vector Search

embeddings pipelines, pgvector, hybrid search, dense search, sparse search, chunking strategies, reranking, document grounding, source-attributed answers, multi-tenant knowledge isolation

Databases & Storage

PostgreSQL, pgvector, MySQL, BigQuery, Cloud Spanner, Redis, DynamoDB, query optimisation, schema design, ETL pipelines, high-volume data pipelines

Cloud & Infrastructure

AWS, EC2, Lambda, RDS, ECS, Step Functions, GCP, CloudRun, App Engine, Firebase, BigQuery, Docker, Kubernetes, Rancher, Linux

CI/CD & Observability

GitHub Actions, GitLab CI/CD, Jenkins, Datadog, Grafana, structured logging, Cloud Logging, CloudWatch, prompt versioning, monitoring, metrics analysis, operational excellence

Soft Skills

Technical direction, architectural reviews, mentoring, stakeholder communication, roadmap shaping, cross-team alignment, engineering best practices

Languages

Portuguese: Native

English: Advanced

Spanish: Basic

French: Basic