

Cauã Almeida

Backend Developer & Data Engineer

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Bio

Mid-level Backend Engineer specializing in automation-heavy service platforms and operational integrations.

I design and maintain production Python backends that orchestrate multi-step workflows across internal systems and Jira, with explicit runtime safety controls (preview mode, approval gates, caps, duplicate prevention, retry/backoff, and audit logs). I also build the supporting data layer for operational analytics, including ETL pipelines and performance-aware processing on large datasets. Strong systems foundation in C/C++ and Rust, with a primary interest in low-latency systems.

Experiences

Business Intelligence Assistant

2024/06–Present

Dover Fueling Solutions, Rio de Janeiro

Own backend and data automation for the Services operation, including a 10-step intranet-to-Jira sync workflow covering extraction, transformation, ticket creation, post-processing, and two-round closure. Implemented operator-safe execution with preview runs, approval flow, policy caps, duplicate checks, summary allow/deny filtering, retry/backoff behavior, and JSONL run-history logging. Added controlled retroactive backfill support (configurable lookback and limits) and maintained dashboard data pipelines used for day-to-day operational visibility.

Business Intern

2022/06–2024/05

Dover Fueling Solutions, Rio de Janeiro

Supported Engineering and Customer Service teams with analytics and process automation initiatives. Built and maintained Python-based reporting workflows, contributed to ticket classification experiments for routing and root-cause analysis, and helped deliver operational dashboards and data-preparation flows using Power BI and Oracle E-Business Suite.

Education

Bachelor's in Data Science

2024–Present

Anhanguera

Software Engineering

2025–Present

École 42, Common Core

Peer-to-peer program centered on systems programming, algorithms, and project-based software engineering with strong emphasis on C/C++ and Unix fundamentals.

Skills

Systems	C/C++, Rust, Memory Management, POSIX/Win32 APIs, Low-latency Foundations.
Backend & Data	Python (CPython/PyPy), FastAPI, ETL, Pandas, SQL, Streamlit, uv, Ruff, Pytest.
Web, Platform & AI	TypeScript, React, Next.js, Vue, Svelte, WebSockets, Redis, Docker, Nix, Supabase, OpenAI APIs, MCP, RAG.

Projects

DFS Jira Services API (Sentinel) Built a Python ETL integration between internal systems and Jira with 10-step orchestration, safety controls, duplicate prevention, and retroactive backfill. <i>Python, Jira REST API, ETL, JSON Configuration</i>	<i>Dover Fueling Solutions</i>
DFS ServiceWatch Performance Optimization Optimized a Streamlit + pandas operations dashboard using layered caching, vectorized processing, dtype tuning, and runtime monitoring. <i>Python, Streamlit, Pandas, Plotly</i>	<i>Dover Fueling Solutions</i>
Consolidado DFS Automation Refactored consolidation automation for multi-tab Excel outputs and optional Outlook delivery, improving period handling and consistency. <i>Python, Pandas, Excel Automation, Outlook Integration</i>	<i>Dover Fueling Solutions</i>
Marketplace Platform Built a production marketplace SaaS with subscription checkout/webhook flows, Supabase-backed operations, and AI-assisted image search. <i>Next.js, TypeScript, Supabase, Payments, OpenAI API</i>	<i>estoquefinal.com.br</i>
Real-Time Encrypted Chat Platform (Closed Source) Designed a low-latency chat platform with character-level streaming, end-to-end encryption, ephemeral room lifecycle, and moderation/ops controls. <i>Rust, WebSockets, Redis, Axum, WASM</i>	<i>Stealth Startup</i>
NFT Contract & Generation Stack (Closed Source) Implemented a baseline ERC-721 contract layer and integrated a layered NFT generation engine with weighted trait rules, uniqueness constraints, and metadata ranking workflows. <i>Solidity, ERC-721, EVM, Python, Metadata Pipelines</i>	<i>Stealth Startup</i>
geto Built a C CGI file-cache service with SHA-256 deduplication, expiring download tokens, upload hardening, and SQLite-backed metadata. <i>C, CGI, SQLite, OpenSSL, Docker</i>	<i>Open Source</i>
Tancho Built a local-first Twitter/X Wayback archive platform with async scraping, SQLite FTS search, and real-time scrape progress over WebSockets. <i>Python, FastAPI, SQLite, Alembic, Vue, TypeScript</i>	<i>Open Source</i>
shot11 Developed a hotkey-driven Windows capture utility in C with custom drop-shadow rendering, clipboard integration, and PNG export. <i>C, Win32 API, WIC, Clipboard APIs</i>	<i>Open Source</i>

micro-moka (Contributor)

Contributed fixes and maintenance improvements to a lightweight Rust cache crate featuring W-TinyLFU eviction for single-threaded workloads.

Open Source, crates.io

Rust, Caching, W-TinyLFU, Crates.io