

Ayrton Vargas Witcel Fidelis

Senior Backend Engineer · Systems Integration & Data · TypeScript / Node.js · GraphQL

Cascavel - PR, Brazil (fully remote) · ayrton.vargas33@gmail.com · ayrtonvwf.dev · github.com/ayrtonvwf

Summary

Senior backend engineer with 10 years building for the web, currently at **Globoplay (Grupo Globo), Brazil's largest homegrown streaming platform** (~18M monthly / ~6M daily active users). I design and ship **GraphQL and REST APIs** in TypeScript/Node.js, **integrate external systems and move data between them**, and break monoliths into microservices with **Apollo Federation** - owning a problem end to end, from API contract and data modeling to the cloud infrastructure that runs it. I work fully remote on async teams and ramp into a new domain fast: I treat unfamiliar territory (a video pipeline, a partner's protocol) as something to learn quickly, not a blocker. Strong written and spoken English.

Experience

Senior Backend Engineer - Globoplay (Grupo Globo)

Apr 2023 - Present · Remote · Web and Backend team

Build and operate Node.js/TypeScript services behind a **GraphQL (Apollo Federation)** architecture - with REST for service-to-service communication - for Brazil's largest homegrown streaming platform (~18M monthly / ~6M daily active users).

- **Integrated external analytics into the product as live, data-driven content.** System designed and led a cross-functional effort turning a blank search screen into a **"Most Searched"** experience: defined the metric from **Google Analytics** data, helped build a daily **BigQuery** ranking job, and implemented the backend resolving it into a live, cached carousel served through the **GraphQL Federation** - a clean pipeline **moving data** from an external source into a production API. The same mechanism now powers ~20 content carousels; the Most Searched one alone drives **~18.6M impressions and ~3M clicks/month (16% CTR)** and captures **~85% of clicks** on the new search page.
- Led a cross-functional team to fix **cold-start recommendations** for new users: reframed a vague problem, then system designed an onboarding flow seeding **category carousels that render instantly**, sidestepping a recommendation pipeline that normally took hours - all on existing services. Reached **1.5M new users at 70% onboarding completion**, lifting first-day content engagement **+9%**.
- Diagnosed a chronic backlog of stale dependency upgrades as a **team/culture** problem, not a technical one, and introduced a recurring blame-free review ritual - **more than tripling merged dependency upgrades year over year** (184 → 595 over the same Jan-Sep window).
- **Founded the team's AI engineering practice** (AGENTS.md, custom skills, MCP integrations) - now an official initiative adopted **across the 22-engineer team**; tracked AI-assisted work roughly **tripled** (8 → 24 tagged tasks/month).

TypeScript · Node.js · GraphQL · Apollo Federation · REST · Microservices · BigQuery · Google Cloud

Tech Lead - People Hub

Sep 2020 - Apr 2023 · Remote

Led backend and architecture for a remote product team.

- Designed and implemented **GraphQL and REST APIs** in TypeScript/Node.js end to end (incl. auth), migrated toward **microservices with Apollo Federation**, and built the **Google Cloud** infrastructure from scratch with CI/CD (GitHub Actions / Cloud Build).

- **Modeled data and moved it across MongoDB, Postgres, Elasticsearch, Firestore and Redis** - choosing the right store per workload and integrating them behind a unified API.

TypeScript · Node.js · GraphQL · Google Cloud · CI/CD · Postgres · MongoDB · Redis · Elasticsearch

Selected Project

Yorick - distributed data-integration platform (*solo-built, 2025 - Present*)

A production backend I designed, built, and operate solo to run my Amazon store - precisely the **external-partner integration + data-in-motion** problem this role centers on. It **integrates two external partner APIs (Amazon SP-API and the Bling ERP)** into a synced Postgres store.

- **Queue-based sync engine** (BullMQ / Redis, ~30 workers) with an **orchestrator-per-domain** pattern, so first-sync vs. incremental sync is **idempotent and resumable** - a job that re-fires mid-sync reads a marker and safely skips.
- **Paginates an external partner API as a recursive job graph**: fetch a page, fan out chunked **idempotent upserts** as child jobs, then recurse or finish - with exponential backoff and permanent-failure handling so partner-side errors don't wedge the pipeline.
- **Typed integration client** generated from the partner's OpenAPI schemas, plus OAuth token refresh, and **full observability I run myself** (OpenTelemetry tracing, Prometheus, Loki, **Grafana alerts as code**) on infrastructure I deploy as code.

Node.js · TypeScript · BullMQ · Redis · Postgres/Prisma · OpenAPI-typed API clients · OpenTelemetry · Grafana/Prometheus/Loki · Docker · IaC

Earlier Experience

Full Stack Developer - Trend Mobile

Jan 2016 - Sep 2020 · Medianeira, PR

Built websites and apps for local businesses: PHP (CodeIgniter) + MySQL backends, **REST APIs (Swagger/OpenAPI)**, third-party API integrations, and Angular/Ionic front-ends.

Skills

- **Core**: TypeScript · Node.js · GraphQL · REST / OpenAPI · Microservices · System Design · Unit Testing
 - **Integration & Data**: External-partner API integration · OpenAPI-typed clients · OAuth token flows · Queue-based sync (BullMQ/Redis) · Idempotency, retries & pagination · Analytics-to-product data pipelines · PostgreSQL · Prisma · MongoDB · Redis · Elasticsearch · BigQuery
 - **Cloud / DevOps / Observability**: Google Cloud Platform · Docker · CI/CD · GitHub Actions · Cloudflare · OpenTelemetry · Grafana / Prometheus / Loki · Infrastructure as code
 - **AI Engineering**: SDD · Agent harnesses (AGENTS.md, skills) · MCP · Claude Code · Mastra
 - **Frontend & Languages**: React · Next.js - Portuguese (native) · English (advanced / full professional)
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Education & Highlights

Universidade Tecnológica Federal do Paraná (UTFPR) - Computer Science, foundational coursework, 2018-2020 (left to take on a tech lead role). Speaker at Congresso Latino-americano de Software Livre (GraphQL, 2021; Remix, 2022). Open source: **PHPSess** (encrypted PHP sessions) · [ayrtonvwf/skills](#) (agent skills + MCP server & eval harness).