



# Igor Trentini

Backend Engineer · Go, PHP & Distributed Systems

## PROFESSIONAL SUMMARY

Backend engineer with over 5 years of experience, currently at Fretebras (Frete.com Group) working on distributed systems and event-driven architecture (Go, PHP, Kafka). Previously spent 5 years at Logae/Raster Group as the technical reference for a team of ~30 developers, responsible for architecture and code reviews, and highly collaborative — consistently contributing with PO, dev, QA, and support, including flows beyond my own scope. Led 4 projects from scratch to production, serving thousands of companies and hundreds of thousands of monthly requests. Strong track record shipping AI to production — OCR, facial validation, and Google Document AI — with a caching architecture that cut AI API costs by 70-80%. AI tooling is a core part of my daily development workflow. Active participation in planning sessions and technical and business workshops, collaborating with developers, POs, and stakeholders.

## PROFESSIONAL EXPERIENCE

### Fretebras — Frete.com Group

05/2026 – Present

#### Backend Engineer

- Building distributed systems with event-driven architecture at one of Brazil's largest logistics platforms
- Backend services in Go and PHP, with messaging and event streaming via Kafka
- Working in a high-scale environment, prioritizing resilience, decoupling, and asynchronous processing

### Logae — Raster Group

09/2021 – 05/2026 · 4 yrs 8 mos

#### Backend Engineer

#### Backend & Architecture

- 6+ systems and 20+ libraries/SDKs in Go in production with layered architecture and domain separation
- Extensible integrations module with 15+ providers (adding a new provider only requires implementing an interface)
- Webhook system with exponential retry and asynchronous processing via queues (RabbitMQ)
- Workers with goroutines and context for parallel integration processing, respecting cancellation and timeouts
- Multi-tenant white label system with domain detection and custom granular RBAC

#### Integrations & Cloud

- File hash-based OCR cache with time-based expiration and soft delete (reduced AI API costs by 70-80%)
- Google Cloud Document AI, AWS S3, Firebase, Keycloak (OAuth2/OIDC), Jitsi Meet (WebRTC), Jira API, government APIs, internal APIs, third-party APIs
- Versioned migrations with custom Go-based system, entity modeling in PostgreSQL (GORM/pgx)
- Multi-layer validation: HTTP binding (Gin) → business rules → database constraints

#### Quality & DevOps

- Table-driven tests with Testify + Testcontainers (real PostgreSQL), target 80% backend, 70% frontend
- Standardized test templates for consistency across projects; audit logging on critical entities
- CI/CD on Bitbucket Pipelines with parallel stages and private Go lib resolution
- Structured logging (Uber Zap), monitoring (New Relic), auto-generated Swagger/OpenAPI

## KEY PROJECTS

**Document Validation Platform:** One of the company's core products. Fullstack monorepo (100k+ lines, 5 applications) that automated risk analysis for thousands of clients, processing hundreds of thousands of searches/month with thousands of active users. Integrations with 15+ providers, AI-powered facial validation, OCR, real-time chat, and asynchronous processing via message queues.

**Video Call Platform:** Replaced in-person inspection processes. 1,000+ video calls with real-time checklist, recording, PDF generation, and multi-tenancy. System stable since launch (zero critical fixes).

**Centralized Integrations API:** Eliminated integration duplication across teams. Unified government and AI integration service with caching, automatic fallback, reducing external API costs by 70-80%.

**20+ Go Libraries:** Reusable SDKs for authentication, cloud, OCR, and integrations, adopted across other company projects.

## CONTACT

|          |                               |
|----------|-------------------------------|
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| GitHub   | github.com/o-igor-trentini    |
| Location | Concordia, SC, Brazil         |

## CORE STACK

|         |                |            |          |             |
|---------|----------------|------------|----------|-------------|
| Go      | PHP            | Gin        | GORM     | Google Wire |
| Testify | Testcontainers | PostgreSQL | Docker   |             |
| AWS     | Google Cloud   | Kafka      | RabbitMQ |             |
| React   | TypeScript     | Git        |          |             |

## SKILLS

Software Architecture  
Distributed Systems  
Event-Driven Architecture  
REST APIs / Microservices  
CI/CD Pipelines  
OAuth2 / OIDC / RBAC  
Automated Testing  
Third-party API Integrations  
Concurrency (Goroutines)  
Code Review / Cross-team Collaboration  
Data Modeling

## LANGUAGES

Portuguese — Native  
English — Fluent technical reading, intermediate conversation

## EDUCATION

### Bachelor's in Software Engineering

UNIASSELVI · In progress (Expected: 2026/2)