

Guilherme Nery

Software Engineer

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SUMMARY

Software Engineer with production experience building and evolving event-driven backend systems in Go at Worten. Hands-on experience with Go, Apache Kafka, PostgreSQL, REST APIs and Hexagonal Architecture, including data integration, new feature development and large-scale refactoring of production systems.

Technical Skills

Backend: Go, REST APIs, Microservices, Concurrency, Graceful Shutdown, Timeout Management

Data & Messaging: Apache Kafka, Event-Driven Architecture, PostgreSQL

Architecture: Hexagonal Architecture (Ports & Adapters), Clean Architecture

Frontend: React, TypeScript, Next.js

Tools: Docker, Git, GitLab CI, AWS ECS

PROFESSIONAL EXPERIENCE

- SOFTWARE ENGINEER - Worten Portugal** Feb 2026 - Present
Lisbon, Portugal · Backend
 - Developed two production data-integration services (MDM Brands and MDM Locations) in Go and Kafka, replacing legacy file-based integrations with event-driven services.
 - Implemented contract signing and draft state-machine flows in an event-driven workflow system using Go, Kafka and PostgreSQL, validating state transitions and publishing domain events downstream.
 - Developed a VAT simulation and data-ingestion feature in Go, Kafka and PostgreSQL, consuming SAP VAT streams and persisting normalized tax rules while publishing downstream events for VAT updates.
 - Refactored 9 HTTP endpoints across four functional domains of a production pricing platform, splitting shared interfaces into cohesive service, port and handler modules while preserving existing behaviour.
 - Moved business rules from the data-access layer into services, enabling isolated unit testing without database dependencies and eliminating duplicated business logic through centralized validation and messaging
- SOFTWARE ENGINEER INTERN - Worten Portugal** Feb 2025 - Feb 2026
Lisbon, Portugal · Backend
 - Built a full-stack e-commerce application using Laravel and Vue.js as part of a hands-on engineering onboarding program.
 - Transitioned to Go backend development as the team adopted event-driven services, gaining production experience with Go, Kafka and backend service development.
- BUSINESS INTELLIGENCE ANALYST - Central de Cervejas e Bebidas (Heineken Group)** Jan 2024 - Jan 2025
Lisbon, Portugal · Data-driven support for sales operations
 - Built automated SQL reporting and ETL routines, improving team efficiency by ~20%.
 - Optimized SQL queries for data validation, increasing report accuracy by ~15%.
 - Supported 15+ sales representatives covering 2,000+ points of sale across Portugal.
- Freelance Developer** Jun 2023 - Jan 2024
Lisbon, Portugal · Remote
 - Delivered responsive web interfaces in React and TypeScript, managing scope and client expectations end to end.
- Front-End Developer/Design - Allby (Creative Marketing Agency)** Jan 2022 - Mar 2023
Lisbon, Portugal · Website development for a creative marketing agency
 - Built and customized websites with JavaScript (ES6+), HTML5 and CSS3, working with cross-functional teams.
 - Improved load times and Core Web Vitals through asset optimization and performance tuning, contributing to a ~35% increase in user engagement

Selected Personal Projects

Real-Time WebChat (Go + React)

Real-time multi-room chat application built with Go and WebSockets, using goroutines, channels and mutexes to manage concurrent connections and message broadcasting. Includes structured JSON messaging, presence, typing indicators, ping/pong keepalive, graceful shutdown, automated tests and AI integration through the NVIDIA Nemotron API.

Tech Stack: • Golang • NVIDIA Nemotron • WebSockets • React • Typescript • Docker

<https://github.com/Nery93/chat-server>

Event-Driven Order Processing System (Go)

Four independent microservices (Order → Payment → Inventory → Notification) communicating via Kafka, with idempotent event handling for eventual consistency. Go, Kafka, PostgreSQL, Redis, Docker.

Tech Stack: • Golang • Kafka • PostgreSQL • Redis • Docker

<https://github.com/Nery93/event-driven>

The Descent (Frontend)

High-fidelity interactive memorial tracing the historical path from 1918 to 1945. Developed as a deep-dive into advanced frontend engineering and complex data visualization.

Tech Stack: Next.js 14 • React 18 • TypeScript 5.7 • Tailwind CSS 3.4 • Framer Motion • Mapbox GL JS

<https://the-descent-psi.vercel.app/>

Professional Development

Golang — The Complete Developer's Guide (Udemy, 2026)

React & Next.js Full-Stack Architecture (Udemy, 2026)

AWS — Getting Started with Compute (AWS, 2025)

Advanced SQL & Database Management (Codecademy, 2024)

Education & Languages

BACHELOR OF TECHNOLOGY

- Centro Universitário Mouca Lacerda - São Paulo, Brazil | 2015

Portuguese (Native) • English