
CRISTIAN SILVARES GONÇALVES GIEHL

[in LinkedIn](#) | [\(21\) 99981-5903](tel:(21)99981-5903) | [✉ cristiangiehl@gmail.com](mailto:cristiangiehl@gmail.com) | [GitHub](#) | [Website](#)

Skills

- JavaScript | TypeScript | React.js | React Native | Next.js | Tailwind | Ky | Axios | TanStack | Zustand | Zod | Gsap | Rust | Loco.rs | Node.js | Prisma | Fastify | Git | PostgreSQL | OracleDB | Supabase | Redis | BullMQ | seaORM | Docker | OpenAI | Recharts
- Vitest | Unit Testing | e2e Testing | CI/CD
- Frontend | Backend | Full-Stack | English, Portuguese – *All professional proficiency or above.*

Professional

Software Engineer	Grupo Koch S.A.	02/2026 - current
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[Nexo — Enterprise AI Platform]

- Developed an internal enterprise AI platform (Nexo) for Grupo Koch employees using **Next.js 16**, **React 19**, **Tailwind CSS v4**, **TanStack Query v5**, and **OpenAI GPT-5**, with a fullstack architecture based on **App Router** and **React Server Components**.
- Implemented a **multi-agent system** with four specialized agents: **OrchestratorAgent** (central router), **GestaoDespesasAgent** (financial analysis), **SoftDeskAgent** (automated ticket creation), and **LibrarianAgent** (document ingestion and knowledge extraction), each with independent tools and business rules.
- Implemented a **RAG** (Retrieval-Augmented Generation) system with **OpenAI** embeddings stored in **Supabase** using the **pgvector** extension, including document access control based on **Active Directory (LDAP)** groups via ldaps.
- Integrated the system with the **Consinco ERP** via **Oracle DB**, enabling the financial agent to query invoices, suppliers, and trends by period directly from ERP tables using natural language.
- Implemented dynamic generation and rendering of interactive charts (bar, line, area, pie) via **Recharts** from agent responses, with state persisted in conversation history to allow conversational adjustments..
- Configured corporate authentication with **LDAP + JWT** (sessions persisted in Oracle), password recovery and reset flow directly via AD, and environment variable validation with **Zod** at application startup..
- Structured a **CI/CD pipeline** with **Docker** multi-stage build, three environments (dev, staging, prd), automated Oracle migrations in dev, and deployment to a private internal registry.

[Gestão de Despesas — Fiscal Approval Platform]

- Developed an invoice expense management platform with a full multi-level approval workflow — buyer → approver → controller → fiscal — using **Next.js 15**, **React 19**, **TypeScript**, **Tailwind CSS**, and **Oracle DB**.
- Implemented RBAC with **8 access roles**, enforced via middleware guards and **Server Actions** through a **secureRoleAction**, ensuring route and action isolation per role.
- Modeled a **17-status lifecycle** per invoice, with automated processing via **cron jobs**: supplier/nature/approver matching, due-date-based status transitions, and pending approval email alerts.
- Implemented an async queue system with **BullMQ + Redis** for ERP Consinco (C5) integration and email delivery, with automatic retry using exponential backoff and payload persistence for auditability.
- Integrated the system with the Consinco ERP via REST API, mapping NF-e fiscal documents (models 55–67), installments, municipalities, and supplier type (CPF/CNPJ).
- Structured deployment with a **Docker** multi-stage build on **Docker Swarm** with two services (Next.js and Redis), secrets via Docker Secrets, and CI/CD with GitHub Actions.

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Software Engineer	ZapTech	04/2024 - 02/2026
- Led the revamp of the company's largest client website using Next.js, TypeScript, Tailwind CSS, TanStack Query, Zustand, Zod, and Shadcn. The result was a modern, responsive, and highly performant web application, reducing average load time from 3s to 1s. Also implemented Lighthouse metrics, achieving 90+ scores across accessibility, performance, best practices, and SEO. - Refactored the marketplace interface by adding advanced filter and sorting options, along with an interactive map powered by Leaflet. The map displays available products by region with marker clustering for better visualization and modals with detailed product information, significantly improving user experience and engagement. - Developed a Rust worker for automated email alerts, notifying users whenever new products were listed near their areas of interest. Rebuilt an open-source project based on OpenStreetMap by forking and adapting an existing crate to meet the project's specific geolocation requirements. - Developed a Rust worker to automate follow-up email delivery for newly registered users, reducing drop-off rates in the onboarding flow. - Built robust APIs in Rust using Loco.rs and the MVC pattern, improving system efficiency, maintainability, and scalability. Also implemented database migrations, optimizing models and controllers for high reliability. - Enhanced site visibility and traffic through advanced SEO strategies, achieving better search rankings and organic reach.		

Full Stack Developer	Macroswift	01/2024 - 05/2024
- Developed an automation bot for sending WhatsApp messages using Python and Selenium. - Developed automation bots for sending messages on Slack and Telegram using Python.		

Education

Industrial Engineering	ibmec	Rio de Janeiro, Brazil	01/2012 - 12/2017
Specialization in finance and economics.			

Applied AI Engineer	Anhanguera (UNIPDS)	Santa Caterina, Brazil	07/2026 - 07/2027
Postgraduate specialization in software engineering with generative AI: LLM fundamentals, generative-AI APIs and prompt engineering, Model Context Protocol (MCP), autonomous agent development, AI system architecture, data processing and model fine-tuning, AI security and governance, plus applied AI for DevOps, UX/UI and project management. Concludes with an integrative Capstone Project.			

Projects

- MY-WEBPAGE:** Development of a portfolio website to showcase front-end skills using **React**, **Next.js**, **GSAP**, and **Tailwind** for an interactive and responsive design. **(WIP)**
- FORSAKEN-VOWS:** Development of a full-stack project for playing RPG online with friends, featuring a custom RPG system inspired by D&D. Built with **Next.js** (frontend) and **Loco.rs** (backend). **(WIP)**

Certificates

Scrimba
The AI Engineer Path: Build apps powered by generative AI - an essential 2025 skill for product teams at startups, agencies, and large corporations. Learn about agents, RAG, MCP, multimodality and context engineering. (01/2026)

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- **The Fullstack Developer Path:** Learn the entire stack from backend to frontend. Focused on hireable skills from the JavaScript ecosystem, like React, Node, Express, Next, and even AI engineering.. (06/2025)

Rocketseat

- **Node.js Fundamentals:** Node.js | HTTP Fundamentals | Request | Response | Headers | Status Code | Params. (08/2024)
- **Next.js App Router and Tests:** Developed an e-commerce project covering Next.js architecture, React Server Components, Streaming SSR, Client Components, Routing, Suspense API, Data Fetching, Cache & Memoization, among other topics. (07/2024)
- **Explorer:** Fundamentals of HTML | CSS | JavaScript | Git | React | Node.js (06/2024)
- **Frontend and Backend connection:** Navigation | dashboard style interface | graphs | tables | skeletons (loading effect) | optimistic interface | API consumption, |HTTP requests | caching | state management | Unit Testing | HTTP mocks | e2e tests. (06/2024)
- **HTTP and Performance:** Accessibility | modal | HTTP request | API connection | state management via context |performance. (05/2024)

Others

Credit Data Analyst

BOCOM BBM

São Paulo, Brazil 01/2016 - 06/2019

- **Data Management:** Organized and maintained a comprehensive financial and credit database, ensuring accuracy, integrity, and security across multiple systems.
- **Financial Data Analysis:** Analyzed financial statements, credit reports, and transaction histories to identify trends and patterns, applying statistical methods to assess creditworthiness and financial stability.
- **Report Writing:** Created detailed financial reports and presentations for the bank's executive team.
- **Communication and Collaboration:** Presented analytical insights and recommendations to senior management and collaborated with cross-functional teams to align analyses with strategic objectives.