

# Matheus T. Alves

Software Engineer, Brazil

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## Summary

Software Engineer with 4+ years of professional experience and 8+ years of total experience in software. Focused on backend and asynchronous systems. I'm currently working at [Eden](#). Developer of [Lohbi](#) (real-time language platform) and [Synche](#) (P2P file syncing app). I'm fluent in English and Portuguese, and seeking roles in backend, fullstack and general systems engineering. I usually work as a contractor internationally but I'm open to all sorts of agreements.

## Core Skills

**Languages:** Rust, JavaScript/TypeScript, Python, PHP

**Systems:** Linux, Docker, Kubernetes, WebRTC, WebAssembly, gRPC

**Databases / Storage:** MySQL, PostgreSQL, Sqlite, Redis, GraphQL

**DevOps / Cloud:** AWS (S3, RDS, EC2, Lambda, Beanstalk), Gitlab CI/CD, GitHub Actions, Fly.io, Netlify

**Tools / Observability:** Git, Gitlab, Sentry, Kibana, Grafana, Loki, Prometheus, OpenTelemetry

**Web:** Node.js, React, Angular, HTML, CSS, Node.js, Tailwind

## Professional Experience

### Eden - Software Engineer (Rust focused)

October 2025 - Present

[Eden](#) is building a database gateway platform that lets teams manage databases via proxies (e.g., PostgreSQL, Redis) without touching application code. I'm helping the team on the core internals of the migration proxy, focusing on Rust networking, database protocol handling, and migration reliability. Specifically, I'm working on TCP, UDP and TLS proxy connections, Redis serialization protocol support by parsing RESP2 and RESP3 data streams, Migration strategies and conflict resolution for different data types, Tokio async and concurrent optimizations, Migration stress tests and general HTTP services implementations.

## **Goettle / AutomateArmy - Software Engineer**

January 2026 - March 2026 (Contractor)

I developed PDAT (Pile Data Acquisition Tool), a native Windows 10 Service for industrial file ingestion and remote device management. The application monitors watched folders for certain file types (related to pile drilling metadata) and sends data to a central HTTP API. It also includes heartbeat monitoring, hourly log uploads, optional self-update with rollback, and health management for Tailscale and TightVNC. Currently in production for multiple Goettle's in-site construction cabin computers.

## **Inbenta - Software Engineer (Backend Focused)**

March 2022 - July 2025

Inbenta builds AI-driven automation for customer interactions, including chatbots, knowledge bases, and search solutions. I collaborated directly with global clients to architect and deploy scalable real-time services, API integrations, and third-party messaging brokers, enhancing customer engagement.

### **Some projects I owned:**

- Enabled real-time agent-to-user communication for **Volkswagen** by building a Whatsapp connector integrating Inbenta's Chatbot, 360 Dialog (broker) and Salesforce Live Agent. Also, automated financial services chatbot workflows by connecting with Volkswagen's proprietary APIs, streamlining customer inquiries.
- Led end-to-end development of WhatsApp and web-based chatbot services for **Neoenergia**, maintaining 10+ microservices to handle high-volume interactions; implemented webhooks for customer's proprietary APIs, asynchronous batch processing for message processing, Infobip (broker) WhatsApp connectors, custom analytics web reports, and Chatbot Web SDKs, resulting in seamless multi-channel support for millions of monthly users.
- Designed and implemented Sunshine Conversations integration with Inbenta's chatbot platform for **Gympass/Wellhub**, supporting web widgets and WhatsApp channels.

## **Education**

**B.Sc. Computer Science - Pontifícia Universidade Católica de Minas Gerais**

August 2018 - July 2022

## Relevant Personal Projects

[Lohbi](#) - Real-time language practice platform. (Rust, Typescript, Angular, WebRTC, PostgreSQL, Docker, Grafana, Loki, Tailwind)

[Synche](#) - Peer-to-Peer continuous file syncing tool. (Rust, Sqlite)

[fjson](#) - A zero-dependency JSON Parser and Fixer. (Rust, WebAssembly)

[Benchpress](#) - HTTP benchmarking tool. (Rust)

[matx.dev](#) - Personal technical blog and website. (Rust, Github Actions)

[BIRADS Classifier](#) - Machine learning tool for breast cancer classification. (Python)

## Certificates

[AWS - Certified Cloud Practitioner](#) - Sep, 2023

[Stanford University - Machine Learning](#) - Apr, 2019

**ICBEU - English Proficiency Certificate (C1 Advanced)** - Sep, 2018