Juarez Lustosa

Senior Software Engineer · Backend & AI

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Belo Horizonte, Brazil · remote

Since 2010 I have worked as a software engineer: first on public health and education systems in Minas Gerais, then as a consultant for banks and fintechs in São Paulo, and since 2020 on the API platform at Decisiv, where thousands of truck repair shops and fleets exchange data every day. The work I enjoy most sits between the database and the HTTP response: designing an API other teams can trust, making a slow query fast, and putting the tracing and dashboards in place so the next problem is visible before a customer reports it. I write tests first, read query plans before touching code, and prefer a small change that ships this week over a big one that ships next quarter.

Experience

2020 — now

Senior Software Engineer · Decisiv

Glen Allen, VA, USA · remote

Backend engineer working on the public API platform and AI integrations for a service relationship platform used by truck OEMs, dealers and fleets across North America.

- Build and operate MCP integrations for AI assistants, from AWS infrastructure and deployment to the server and its tools in production.
- Design and implement MCP tools over existing APIs, preserving user authentication and permissions.
- Design and build endpoints of the public REST API with contract-first validation (dry-rb), JSON:API serialization and OpenAPI docs kept in sync with the code.
- Performance work on multi-tenant Rails services over PostgreSQL tables with millions of rows: query-plan analysis, N+1 elimination, index and query-shape fixes.
- Observability with Datadog, LogScale and distributed tracing, including usage metering and cost tracking per MCP tool call.
- Technical design reviews, architecture decisions and mentoring across a small, senior team.

`MCP · TypeScript · Node.js · AWS · Terraform · Ruby on Rails · PostgreSQL · OpenAPI · Datadog`

2017 — 2020

Software Engineer (consultant) · Codeminer42

São Paulo, Brazil

Consultant for clients in finance and retail, usually embedded in their teams.

- BTG Pactual: microservices and internal products for financial operations in Elixir/Phoenix, React and TypeScript on AWS.
- Smartfit / Bio Ritmo: maintained 15 back-office Rails applications, improving performance and refactoring; wrote gems for integrations and API clients.
- C6 Bank: built an MVP end to end to onboard customers and reconcile payments automatically.
- Guide Investimentos: microservices for the investments domain; introduced integration tests to the team.
- Ordway: designed a flexible, profile-based authorization system for a billing platform.

`Ruby on Rails · Elixir · React · PostgreSQL · GraphQL · AWS`

2017 — 2017

Software Engineer & Scrum Master · SRM Viagens

Belo Horizonte, Brazil

Travel company reselling airline miles. Introduced Scrum and architected a mobile app with a Node.js API.

`Node.js · Ionic · Angular · MySQL · Jenkins`

2016 — 2017

Software Developer · Raro Labs

Belo Horizonte, Brazil

Traffic-light control system for the city of São Paulo and wagon geolocation for the Brazilian rail network.

- Introduced TDD to the team with RSpec, CucumberJS and Karma.
- Built the wagon-position map with geoprocessing and a SOAP integration with the rail operator.

`Java · Ruby on Rails · Angular · MQTT · MongoDB · Leaflet`

2012 — 2013

Software Engineer & Tech Lead · Appolus

Sete Lagoas, Brazil

Hospital and public health management: prescriptions, admissions, ICU, health centers and billing. Led the developers, ran Scrum and owned the database and integration servers.

`Ruby on Rails · MySQL · PostgreSQL · MongoDB · Jenkins`

2010 — 2012

Software Developer · Connecta Rubinger

Sete Lagoas, Brazil

Web applications for the public sector (education, social programs, health). Requirements, agile adoption and technical direction of the team. My first Rails job.

`Ruby on Rails · JavaScript · Cucumber · MySQL`

Skills

AI integrations: Model Context Protocol (MCP), Tools / TypeScript, AWS / Terraform, Observability

Backend: Ruby on Rails, Elixir / Phoenix, Node.js, Java, REST, JSON:API, OpenAPI, GraphQL

Databases: PostgreSQL, MySQL, MongoDB, Redis

Infrastructure and operations: AWS, Datadog, LogScale, Grafana, Terraform, CI/CD, Heroku

Testing: RSpec, Capybara, Cucumber, Integration and contract tests, Manual QA with a tester mindset

Frontend: React, TypeScript, Angular, Ionic, Astro

Ways of working: Scrum and Kanban, Technical leadership, English

Education

2026 – 2027

Postgraduate, Software Engineering with Applied AI

Anhanguera Educacional

2015 – 2016

MBA, Economics and Business Management

FGV – Fundação Getulio Vargas

2010 – 2011

Postgraduate, Software Engineering with Agile Methods

Centro Universitário UNA

2001 – 2005

Bachelor's, Information Systems

Faculdade Cenecista de Sete Lagoas

Languages

Portuguese (native), English (professional)