

# Resume: Leonardo Marcelino Vieira

Senior Software Engineer - Fullstack Developer - Platform Engineer

Specializing in system modeling, event-driven systems, building systems at scale, observability infrastructure, user and developer experience

## CONTACT

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## SKILLS

### PROGRAMMING LANGUAGES

JavaScript, TypeScript, Rust, C#, C, Java, Ruby, Python.

### FRONTEND & FRAMEWORKS

React.js, React Native, Next.js, Angular, AngularJS, HTML & CSS, Tailwind CSS, Expo.

### BACKEND & FRAMEWORKS

Node.js, Express.js, Fastify, Deno, Actix-web, Rocket, Quarkus, FastAPI, @rotorsoft/eventually, @emplifi/bakeryjs.

### ARCHITECTURE

System Design, Microservices, Event-driven Architecture, CQRS, Event Sourcing, Monolithic Architecture, Domain-Driven Design, Clean Architecture, Hexagonal Architecture, SAGA Pattern.

### DATABASES & STORAGE

PostgreSQL, MongoDB, Redis, MySQL, DynamoDB, Elasticsearch, AWS S3, SQLite, pgvector, Qdrant.

### CLOUD & INFRASTRUCTURE

AWS, GCP, Kubernetes, EKS, Docker, AWS Lambda, Terraform, Helm, Kustomize, SOPS.

### CI/CD & AUTOMATION

ArgoCD, Jenkins, GitLab CI, GitHub Actions, Fastlane.

### OBSERVABILITY

OpenTelemetry, Prometheus, Grafana, Grafana Tempo, Jaeger, Datadog, PagerDuty, Kibana.

### MESSAGING & STREAMING

Kafka, RabbitMQ, Google PubSub, AWS Kinesis.

### INTEGRATIONS

Twilio, Facebook, Instagram, X / Twitter, LinkedIn, TikTok, V Kontakte, YouTube.

### SPECIFICATIONS & PROTOCOLS

REST, GraphQL, gRPC, WebSockets, OpenAPI, OAuth 2.0, SAML, SIP.

### TESTING

Jest, Vitest, Mocha, Chai, Cucumber, Playwright.

### BUILD & TOOLING

ESLint, Vite, Nx, Turborepo.

### AI & LLMs

LangChain, Model Context Protocol (MCP), Retrieval-Augmented Generation (RAG), LLM Tool Use.

### PARADIGMS & PRACTICES

Functional Programming, Object Oriented Programming, Test-Driven Development (TDD), Behavior-Driven Development (BDD).

## LANGUAGES

- Fluent English;
- Native Portuguese;

## LATEST PROFESSIONAL EXPERIENCE

### Software Engineer / Platform Engineer

2025-03 – Current

Lumahealth

- Architected a multi-channel patient messaging broadcast system supporting SMS, email, and voice with batching support — scaling capacity from a hard limit of 5,000 recipients to 600,000+ recipients in a single broadcast
- Overhauled Datadog observability setup, instrumenting previously unmonitored critical paths and significantly improving issue detection time and MTTR for on-call engineers
- Revamped local development onboarding experience using Minikube, reducing time-to-productive for new engineers from 2+ weeks to a few hours
- Designed the engagements layer powering the future of Luma's AI-driven platform
- Introduced AI-augmented development workflows across teams, significantly accelerating feature delivery and engineering throughput

### Software Engineer

2024-03 – 2025-03

Andela

- Owned the vetting and jobs domains end-to-end across multiple subdomains, delivering event-driven features using Node.js, TypeScript, PostgreSQL, and GCP
- Rebuilt distributed tracing infrastructure, taking the system from unreliable partial traces to full end-to-end flow visibility across services, enabling confident incident investigation

### Software Architect

2022-05 – 2024-03

Emplifi.io

- Designed TikTok's content ingestion pipeline from the ground up and revamped YouTube's, contributing to a platform-wide system processing millions of jobs per day across all social networks — each job spanning thousands of posts, comments, and related entities
- Promoted from Software Engineer to Architect based on technical impact and cross-team influence

### Software Engineer

2019-08 – 2022-05

Emplifi.io

- Built and maintained high-throughput backend services powering social content ingestion across Facebook, Instagram, X/Twitter, LinkedIn, and YouTube using Node.js, TypeScript, MongoDB, Redis, Elasticsearch, RabbitMQ, and AWS

### Mobile Developer

2018-07 – 2019-07

4all

- Shipped React Native applications for official Brazilian soccer clubs including Internacional, Grêmio, Corinthians, Flamengo, São Paulo FC, and many more, deployed to iOS and Android
- Founded and led an internal React Native mentorship program, reducing ramp-up time for new mobile developers joining the team

## EDUCATION

### Post-graduate in Software Engineering and Innovation

Universidade Federal do Rio Grande do Sul

Bachelor (Complete) - 2019 – 2021

### Bachelor in Software Engineering

Pontifícia Universidade Católica do Rio Grande do Sul

Bachelor (Incomplete) - 2017 – 2019

### Bachelor in Accounting and Legal Sciences

Pontifícia Universidade Católica do Rio Grande do Sul

Bachelor (Complete) - 2012 – 2017