

Iago Rodrigues Melo Rocha

Lead Software Engineer

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SUMMARY

Lead Software Engineer with 8+ years of experience architecting and delivering backend-leaning, full-stack systems, from [Node.js](#), [Nest.js](#), and Python/Django services to React, [Vue.js](#), and React Native applications. Deep expertise in system design, API architecture, database performance, and observability, paired with hands-on AI engineering experience building agentic workflows, automation, and evaluation harnesses that accelerate delivery. Proven track record leading modernization initiatives, scaling backend architecture, and shipping reliable, user-centric products in remote, fast-paced environments.

CORE COMPETENCIES

Full-Stack Development: JavaScript, TypeScript, [Node.js](#), [Nest.js](#), [Express.js](#), Python, Django, React, React Native, [Vue.js](#), [Next.js](#), [Nuxt.js](#), REST APIs, GraphQL

Backend & Data: PostgreSQL, MongoDB, API design, database performance & query optimization, system design, observability, service-oriented architecture, server-side application development

Frontend Engineering: Component architecture, design systems, state management, performance optimization, accessibility, SSR/SSG, responsive UI development

Testing & Quality: Playwright, Cypress, Jest, Vitest, automated testing, quality engineering, maintainability, refactoring, code standards

AI Engineering: AI-assisted development, agentic workflows & automation, evaluation harnesses, Prompt Engineering, RAG, MCP, AI product workflows, developer productivity tooling

Cloud & Delivery: AWS, CI/CD, GitHub Actions, Vite, modern build systems, release reliability

Leadership: Technical leadership, architecture guidance, mentorship, cross-functional collaboration, engineering best practices

Additional tools: Tailwind CSS, HTML5, CSS3, SCSS, React Query, Storybook, Micro Frontends

Professional Experience

Leaflink - Remote, USA

Lead Software Engineer

Sep 2025 – Present

- Lead full-stack initiatives across Marketplace and CRM systems, partnering with Product and Design to deliver scalable, customer-facing improvements in a high-impact product environment.

- Lead and mentor a cross-functional engineering pod spanning frontend, backend, and mobile stacks, owning technical direction, delivery quality, and team growth end-to-end.
- Architected and led modernization of core product surfaces using a scalable DataView-style architecture, improving maintainability, extensibility, and engineering velocity across complex business flows.
- Delivered critical business capabilities improving seller efficiency and operational scale.
- Drove user experience improvements across invoicing and CRM workflows, contributing to a 60% increase in NPS.
- Applied architecture-first thinking to improve platform consistency, release confidence, and long-term system evolution.
- Strengthened engineering quality through dependency management, npm security practices, testing discipline, and improved release reliability.
- Contributed to AI-enabled engineering workflows and practical automation patterns that improved development efficiency and reduced implementation friction.
- Worked across application services and data workflows involving PostgreSQL-backed systems, frontend state orchestration, and production-grade delivery practices.
- Influenced technical direction, code quality, and implementation standards across the team.

Senior Full Stack Engineer

Sep 2023 – Present

- Owned full-stack delivery across [Vue.js](#) frontend and Python/Django backend services, designing REST APIs, PostgreSQL data models, and system architecture for core marketplace workflows.
- Reduced team workload by 50% and improved release velocity by 40% through backend refactoring, service decomposition, and stronger architectural patterns.
- Improved API reliability and query performance by optimizing PostgreSQL schemas and introducing caching, cutting response times and strengthening observability across critical workflows.
- Launched a real-time notifications system and bulk-pricing backend capabilities that increased user satisfaction by 40% and customer productivity by 25%.
- Built internal AI-assisted engineering workflows, including automation scripts and evaluation harnesses for agentic coding tools, reducing implementation friction and improving delivery consistency.
- Built and maintained production-grade features with strong testing discipline (Playwright), release reliability, and dependency/security management.

Tech Stack: Python, Django, PostgreSQL, [Node.js](#), [Vue.js](#), TypeScript, JavaScript, Tailwind CSS, AWS, CI/CD, Vite, Vitest, Playwright, Cypress, HTML5, CSS3

MeAjuda Dev - Remote, Brazil

Full Stack Engineer

Mar 2021 – Mar 2024

- Built web and mobile applications for personal finance using React, Node.js, and Express.js in a collaborative product environment.
- Designed and integrated frontend and backend features across REST API workflows, service layers, and data persistence requirements.
- Worked with PostgreSQL and MongoDB in support of application features, data modeling needs, and backend service development.
- Contributed to microservices and micro frontend architecture, supporting scalable development and modular delivery.
- Helped define engineering standards, delivery practices, and technical workflows across the team.
- Mentored junior developers through pair programming, code reviews, and practical guidance on clean code and version control.
- Supported testing and quality workflows with automated test coverage, including Playwright where applicable.
- Worked in agile delivery environments with close collaboration across engineering functions.

Tech Stack: React.js, TypeScript, JavaScript, Node.js, Express.js, PostgreSQL, MongoDB, REST APIs, CI/CD,

Playwright, Jest, Cypress, Tailwind CSS

Dasa - Remote Brazil

Full Stack Engineer

Aug 2021 – May 2023

- Designed and built [Node.js/Nest.js](#) backend services and REST APIs for critical data-upload and lab-integration workflows, preventing communication failures across healthcare networks processing thousands of daily records.
- Architected PostgreSQL data models and caching strategies that cut application load times by 50% and improved observability across integration pipelines.
- Built a shared component library and internal tooling that lifted squad productivity by 80% and standardized delivery practices across teams.
- Developed a React Native mobile module for on-site sample collection, adopted across multiple clinics, cutting field data-entry time by 30% and reducing manual transcription errors by 25%.
- Improved usability and accessibility, doubling user satisfaction, while maintaining 99.9% uptime across backend integration services handling sensitive healthcare data.
- Mentored developers and tech leads, shaping backend architecture standards and system design best practices.

Tech Stack: [Node.js](#), [Nest.js](#), PostgreSQL, React, React Native, [Vue.js](#), [Next.js](#), TypeScript, JavaScript, REST APIs, AWS, CI/CD, Jest, Cypress, Tailwind CSS

PerfectPay - Remote

Backend Developer

May 2020 – Aug 2021

- Built [Node.js/Express](#) REST APIs and backend services powering a high-performance SSR online course platform, contributing to 50% revenue growth.
- Resolved critical backend integration challenges across payment, authentication, and content-delivery workflows.
- Improved backend system efficiency by 80% through query optimization, caching, and service refactoring.
- Implemented JWT-based authentication and database schema improvements that strengthened platform security and reliability.

Tech Stack: [Node.js](#), [Express.js](#), [React.js](#), [Next.js](#), TypeScript, JavaScript, REST APIs, SSR, Vite, Jest, Cypress, SCSS

LAR.app - Remote

Frontend Developer

Mar 2019 – May 2020

- Improved site speed by 60% and increased content delivery by 50% through frontend refactoring and performance optimization.
- Built a condominium management platform that expanded the customer base, collaborating with backend engineers on [Node.js](#) and REST/GraphQL services to integrate core features.
- Introduced engineering best practices that improved feature delivery by 25%.

Tech Stack: [Vue.js](#), [Nuxt.js](#), [React.js](#), [Node.js](#), TypeScript, JavaScript, GraphQL, SSG, Jest, Cypress, SCSS, Bootstrap

W3 Automação e Sistemas - Belém, Brazil

System Analyst Intern

Nov 2017 – Jul 2018

- Reduced infrastructure costs by 20% by modernizing an internal desktop application, including backend scripts and database queries that streamlined data processing.
- Gained hands-on backend exposure building small [Node.js](#) scripts and API integrations to support internal

tooling and automation.

- Increased project transparency through web-based architecture and feature-flow documentation practices.
- Supported delivery planning and technical coordination in a collaborative environment.

Education

Centro Universitário Maurício de Nassau de Belém - Brazil

Bachelor's Degree in Information Systems

2015 - 2018

Universidad del Norte Santo Tomás de Aquino - Argentina

Exchange program in Computer Engineering

Aug 2017 - Jan 2018

Descomplica Faculdade Digital

PostGraduate degree in Full Stack Development

Mar 2023 - Mar 2024

Languages

Portuguese

Native

English

Fluent