

Lucas de Moraes Tiberio

Senior Software Engineer | AI Engineer

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Software Engineer with 6+ years of experience building scalable platforms and backend/frontend/AI systems, experienced with developing and deploying AI voice agents that optimize performance, reliability, and scalability.

EXPERIENCES

Backend & AI Engineer

Simbie AI, United States | February 2026 - Present

- Build and operate production AI voice agents for healthcare practices, automating patient workflows such as appointment scheduling, rescheduling, cancellations, confirmations, insurance screening, and escalation to clinical staff through direct EHR integrations.
- Build backend systems in Python enabling AI agents to securely interact with external platforms and execute clinical workflows, implementing security and guardrails while applying scalable design patterns and integration architectures aligned with compliance requirements.
- Design and evolve generative ai (GenAI) agent systems, defining prompts, tools, and interaction workflows that enable structured reasoning, safe system actions, and reliable task execution in production environments.
- Defined evaluation workflows for production AI agents, generating daily performance reports and tracking metrics across agent behavior, call outcomes, and workflow execution to identify issues and guide continuous improvements.
- Established observability and auditing mechanisms for AI agent workflows, including execution logging, metrics tracking, and idempotent safeguards to enable traceability, failure recovery, and reliable production operations.

Tags: AI Agents, Python, Flask, Typescript, Postgresql, Prompt engineering, LLM, Generative AI, Voice Agents

Founding Software Engineer

Campground Systems, United States | January 2024 - February 2026

- As the first member from the engineering team, I was able to follow the platform adoption scaling from hundreds to thousands of monthly users (+10K) within one year by designing the system architecture and evolving a multi-tenant SaaS platform built with Next.js, TypeScript, Prisma, PostgreSQL, and Supabase.
- Led the evolution of multiple codebases as the company scaled, driving feature design, architectural consistency, development workflows, reliability, and long-term maintainability.
- Owned production infrastructure and delivery systems supporting application hosting and backend APIs, including DNS/networking configuration, secure tunneling, domain routing, email authentication, environment isolation, and CI/CD automation.
- Architected scalable platform systems and asynchronous communication infrastructure supporting high-volume operational workflows.
- Applied AI across product and engineering workflows to accelerate prototyping, feature implementation, and system evolution.
- Onboarded and mentored engineers as the company scaled, creating technical documentation and establishing development patterns to maintain patterns across codebases and technical team.

Tags: AI, Deno, Python, Flask, TypeScript, Node.js, SQL, Supabase, React.js, Next.js, TailwindCSS, Prisma, Cypress

Frontend Engineer

Farfetch (via Present Technologies), Portugal | July 2022 - January 2024

- Contributed to over 10 luxury e-commerce platforms with over 500K users monthly.
- Managed a core frontend library utilized daily by over 1,000 developers, centralizing Redux state management, API interactions, themes, middlewares, interfaces, and more.
- Optimized global payment systems, integrating providers like Apple Pay, iDeal, PayPal, and Klarna.
- Boosted SEO performance for e-commerce pages through strategic implementation of SSR, JSON-LD, Google Analytics, and Google Lighthouse optimization.
- Delivered pixel-perfect UI/UX designs, ensuring high standards and enhanced user experience.

Tags: JavaScript, TypeScript, Node.js, SEO, React.js, Webpack, A/B Tests, Razzle, CSS, Styled Components, Jenkins

Product Engineer

b8one, Brazil | December 2021 - July 2022

- Ensured technical integrity and product quality using JavaScript, GraphQL and Digital Ocean.
- Designed and developed a React-based Design System, focusing on visual precision and scalability.
- Built deployment and testing pipelines for multiple environments, ensuring smooth CI/CD processes.
- Managed cloud environments on DigitalOcean, configuring Nginx and SSL certificates.
- Boosted API query performance by 80% by implementing a Redis-based caching system.

Tags: JavaScript, TypeScript, Node.js, PostgreSQL, GraphQL, Redis, DigitalOcean, CI/CD Pipelines

Software Engineer

Grupo Fleury, Brazil | April 2022 - December 2022

- Developed secure back-end microservices and intuitive frontend interfaces for one of the biggest healthcare platforms from Brazil.
- Architected and built a real-time scheduling system from scratch, leveraging WebSockets and Pusher.io to enable instant communication and updates.
- Managed code reviews, sharing best practices and maintaining high code quality standards.
- Implemented comprehensive unit tests, significantly increasing the test coverage. Integrating libraries and ensuring correct functionality, layouts, and state management.

Tags: JavaScript, TypeScript, Node.js, Express, PostgreSQL, Next.js, Redux, WebSockets, Jest

Software Engineer

b8one, Brazil | June 2021 - April 2022

- Maintained and enhanced the codebase of a core affiliate platform, significantly improving product and affiliate management, activity logging, and reporting features.
- Developed and integrated key ecommerce plugins, including solutions for abandoned carts and remote affiliate selling, directly impacting sales recovery and channel expansion.

Tags: JavaScript, TypeScript, Node.js, PostgreSQL, GraphQL, MongoDB, d3.js, TDD, Jest, Redux, Azure DevOps, Styled Components

Fullstack Developer

Verzel Soluções em Sistemas, Brazil | January 2020 - June 2020

- Managed end-to-end full-stack development for diverse client projects within a consulting environment.
- Contributed to ongoing projects, from initial design to final delivery, by rapidly implementing new features, resolving critical issues, and ensuring long-term code maintainability.

Tags: JavaScript, TypeScript, Node.js, React.js, MariaDB, Redux, C#, Rest API

Web Developer (Frontend)

Phobos Tecnologia, Brazil | February 2019 - January 2020

- Maintained and enhanced a digital time-tracking platform made with HTML, CSS, JavaScript and jQuery. Contributing to both frontend and back-end features that streamlined employee daily logging and management for clients.

Tags: HTML, CSS, Javascript, jQuery, SQL, ASP.net, Visual basic

EDUCATION

Degree in IT Management

ENIAC University, Brazil | 2018 - 2021