

Caio Henrique de Oliveira Santana

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Skills

Languages: JavaScript, TypeScript, PHP

Frameworks & Libraries: NestJS, Next.js, React Native, Node.js, Express, Fastify, Laravel

Testing: Jest, Pest, Playwright

Databases: MongoDB, MySQL, PostgreSQL

Cloud: Google Cloud Platform, DigitalOcean, Supabase, AWS RDS

Experience

Full Stack Developer, Unlockar – Remote Nov 2025 – Present

- Architected the full-stack platform using Next.js and Express in a monorepo, containerized with Docker and instrumented with Prometheus/Grafana to provide production metrics and operational visibility.
- Introduced an AI-assisted development workflow (Claude/Codex) combining TDD, AI-driven code generation, review, and pull request creation, reducing the average feature delivery cycle from 8 to 2 days.
- Redesigned the external API access layer with Redis caching over MongoDB queries and request deduplication, cutting latency from 2.5s to 80ms (96%) and eliminating redundant API call costs.

Full Stack Developer, BuscaSim – Remote Feb 2025 – Nov 2025

- Led engineering of an A/B testing platform (500K users/day), building an analytics pipeline using the Google Analytics API (GCP), decision caching, and experiment observability that removed 90% of manual testing.
- Standardized third-party integrations by applying the Strategy Pattern, removing duplicate requests and enforcing single execution per provider call, saving approximately R\$7K/month in operational costs.
- Diagnosed production performance bottlenecks and drove build optimization with Vite, eliminating unused dependencies and assets, reducing the JS bundle from 5MB to 432KB and page load time from 5s to 1.5s.

Software Developer, Municipal Government – Ji-Paraná, RO Feb 2023 – Jan 2025

- Delivered a web-based IT ticket management system using Node.js (Express), React on a VPS (Hostinger), and PostgreSQL on AWS RDS, replacing spreadsheet workflows and reducing manual operational work by 90%.
- Streamlined computer diagnostics and maintenance with Python scripts, standardizing repair procedures and reducing routine support tasks (printer/system installation, etc.) from 20 to 5 minutes.
- Implemented a CI/CD pipeline using GitHub Actions for build and deployment to the VPS, eliminating manual releases and reducing average deployment time from 16 to 4 minutes.

Projects

Elonew — Marketplace (in progress) github.com/caiohenrqq/elonew

- Architected a modular backend using NestJS and Fastify with PostgreSQL and Prisma, supporting orders, payments, wallet operations, chat, and support tickets with specification-driven tests (SDD) using Jest.
- Defined the order lifecycle with Mercado Pago payments and RBAC (customer, provider, admin), using atomic state transitions to prevent race conditions in assignment and financial settlement.
- Engineered asynchronous processing with BullMQ and Redis queues for payment webhooks and balance release after lock periods, using idempotent workers and safe retry strategies.

Education

Centro Universitário Internacional – Bachelor's Degree in Computer Science

Expected Jan 2027

Languages

Portuguese: Native

English: Advanced (C1), comfortable with reading, writing, and conversation