

Tiago Gonçalves de Castro

Fullstack Cloud Developer

Node.js | TypeScript | React | Next.js | AWS | Terraform | Data Lake | DevOps | Applied AI

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PROFESSIONAL SUMMARY

Fullstack Cloud Developer, graduated in Systems Analysis and Development, with greater depth in backend, AWS and cloud architecture. Experience in web systems, APIs, marketplaces, Data Lake, infrastructure as code and applied AI, working with Node.js, TypeScript, React, Next.js, Python, AWS, GCP, Terraform and Terragrunt.

Expertise in production systems, cloud cost reduction, data pipelines, online payments and refactoring of legacy solutions. I am looking for remote opportunities as a Fullstack Cloud or Backend Developer, focusing on Node.js, TypeScript, AWS, DevOps and applied AI.

TECHNICAL SKILLS

Backend: Node.js, TypeScript, JavaScript, Python for ETL jobs, scripts and automations, Express, NestJS, REST APIs, GraphQL, Prisma ORM, TypeORM, PostgreSQL, MySQL, Redis, authentication, webhooks, and external integrations.

Frontend: React.js, Next.js, Vite, Tailwind CSS, ShadCN, Chakra UI, Styled Components, dashboards, administrative interfaces, internationalization, technical SEO and web performance.

Cloud and DevOps: AWS, Lambda, S3, RDS, DynamoDB, CloudFront, IAM, CloudWatch, SQS, SNS, Step Functions, Glue, Athena, Bedrock, Lake Formation, Terraform, Terragrunt, Docker, GitHub Actions, and CI/CD; GCP with Vertex AI, BigQuery, Cloud Run, and data services.

Architecture and quality: Clean Architecture, SOLID, automated tests, TDD practices in study projects, refactoring, serverless architecture, event-driven architecture, microservices, ETL pipelines, code review, Scrum and Kanban.

Data, AI, and product: Data Lake, RAG, Athena SQL generation, applied AI, MCPs, marketplaces, online payments, affiliates, loyalty, Google Search Console, GA4, Microsoft Clarity, and Lighthouse.

PROFESSIONAL EXPERIENCE

Fullstack Cloud Developer | HITSS

Jan. 2024 – Current | Home Office

I work on the evolution of Lakeit, an enterprise Data Lake platform in production with active customers, covering development, cloud architecture, infrastructure as code, pipeline support, applied AI and alignment with customers and stakeholders.

- I work end-to-end in the flows of data ingestion, processing, query, governance and exploration.
- I reorganized AWS resources with Terraform and Terragrunt, migrating components previously coupled to SAM and CloudFormation to reusable, standardized and environment-separated modules.
- Conducted governance and optimization improvements to the AWS infrastructure, reducing costs from an average of more than \$2,300 per month to a range between \$800 and \$1,000, with estimated annual savings of over \$15,000.
- I develop and refactor APIs, interfaces, pipelines and cloud integrations with Node.js, TypeScript and Next.js, fixing legacy bugs, removing obsolete flows and improving maintainability.
- I develop and maintain ETL jobs in Python on AWS Glue and Lambda functions for reading and processing CSV files, integrated with flows with S3, SQS, SNS, Step Functions and Athena.
- I developed an AI assistant with AWS Bedrock, RAG, conversational memory, SQL Athena generation, schema query in Glue, reports and graphs; I also participated in a Lakeit pilot initiative on GCP using Vertex AI, BigQuery, and data services.
- I work with Scrum and Kanban, participating in refinements, technical prioritization, delivery monitoring, presentations and training for customers and users.

Freelance Developer / Technical Manager | Futbuynow

Feb. 2023 – Current | Remote | On-demand performance

Responsible for the architecture, evolution and maintenance of a marketplace platform for digital products in the gamer segment, covering payments, sellers, affiliates, loyalty, real-time operations, SEO, infrastructure and automations.

- Platform with more than 11,000 users, 26,000 orders created, 20,000 paid orders, an average of 500 to 800 paid orders per month, and 400 to 500 monthly active buyers.
- I develop a monorepo with Node.js and Express API, React and Vite dashboard and Next.js website, using Prisma, MySQL, Redis, Socket.IO, AWS SES, Cloudflare, Vercel, Railway and AWS RDS.
- Implemented transactional flows with OpenPix, Stripe and PayPal, including webhooks, payment status, operational reconciliation, business rules and automatic order update.
- I developed marketplace, sellers, affiliates and loyalty modules, with dashboards, referral codes, automated commissions and digital product management.
- I applied architectural improvements, error handling, internationalization, rate limiting, Cloudflare rules and security adjustments against abusive traffic.
- Led technical SEO, metadata, indexing, performance and content improvements, contributing to the achievement of 30.4 thousand organic clicks in 12 months.

COMPLEMENTARY PROJECTS

AWS IaC Blueprint

GitHub: github.com/tiagogcastro/aws-iac-blueprint

AWS infrastructure blueprint developed with Terraform and Terragrunt, using reusable modules, separation by environments, and local execution with LocalStack.

i18n Translation npm Library with AI

NPM: [@tiagogcastro/ai-i18n-translate](https://www.npmjs.com/package/@tiagogcastro/ai-i18n-translate) | GitHub: github.com/tiagogcastro/ai-i18n-translate

TypeScript library published in npm to automate translation and synchronization of JSON files with AI, preserving keys, placeholders, structure, multiple languages, reports, and custom providers.

EDUCATION

Systems Analysis and Development – Descomplica UniAmérica

Higher Technology Course | Graduation Completed in Jul. 2026

COURSES AND COMPLEMENTARY TRAINING

AWS Technical Essentials - AWS Skill Builder | Completed in Jul. 2025

JavaScript & TypeScript from Basic to Advanced – Udemy | Finished in Feb. 2023

LANGUAGES

Portuguese: Native | English: Technical for documentation, code and tools | Spanish: Basic