

Carlos Eduardo Gonçalves dos Santos

Software engineer. I build web systems end to end and I'm studying offensive security.

Brazil · fully remote

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cesaints.vercel.app/en

SUMMARY

In four years I went from trainee to running technology for small companies: I wrote code, designed architecture, looked after data and led delivery. In my own systems I started hunting for flaws before anyone else did, which is where my move into AppSec and pentesting comes from, without leaving development behind.

WHAT I'M LOOKING FOR

- AppSec and secure development
- Junior pentester (web and API)
- Security-minded software engineering

Available for fully remote work only (home office), for roles and for freelance projects with a defined scope.

EXPERIENCE

Founder and engineer

Own product (study platform) · May 2026 – present

Study platform with a sales site, a student app and an operations panel in one monorepo. I designed the architecture, set the business invariants and trade-offs, and built and ran the product with automated tests and quality gates before every release.

- Payments with signed, idempotent webhooks and access revocation in the same transaction.
- Security review of the system's own business logic, with flaws reproduced and fixed.
- CI with 8 jobs, enforced CSP and mandatory 2FA on the admin panel.

TypeScript · Next.js · PostgreSQL · Prisma · Turborepo · Vitest · Playwright

Product and technology director (CPTO)

Business group (two service companies) · 2026 – present

I ran technology for two companies in the group, most of the time as the only technical person. I built multilingual corporate sites, an in-house CRM and an internal onboarding platform.

- Owner of the roadmap, architecture, scalability and security and compliance (LGPD); I built the group's platform end to end.
- Own site and CRM on edge infrastructure, replacing a SaaS, with cookieless privacy.
- Multi-company onboarding platform with database isolation proven by tests.
- A technical hiring method with challenges, a live defense and a human decision, designed but not yet used.

Astro · Next.js · Cloudflare Workers · Supabase · PostgreSQL · TypeScript

Software engineer and DBA (freelance)

National professional association · Nov 2024 – present

The only engineer of a legacy PHP system in production that holds sensitive personal data. I lead its incremental modernization to Vue.js while administering the database: a reproducible environment, versioned migrations, CSRF protection and deploys with backup, verification and rollback.

- Schema design and complex SQL with stored procedures.
- Indexing and execution-plan tuning.
- Backups and safe data migration from legacy to modern.
- CSRF protection and gated deploys.

PHP · Vue.js · MySQL · Docker · GitHub Actions

Scrum Master

Software house (federal government systems) · Apr 2024 – Dec 2025

I led cross-functional squads on government systems and coordinated production database releases.

Scrum · SQL Server · Power BI

.NET developer

Software house (federal government systems) · Sep 2023 – Apr 2024

Built mission-critical systems for federal agencies.

C# · ASP.NET · Angular · SQL Server · Entity Framework · Dapper

Intern, then full-stack developer

Software house (federal government systems) · Sep 2022 – Sep 2023

Financial and sustainability projects in .NET with React and Angular front ends.

C# · .NET · React · Angular · SQL Server

Trainee

Trainee program · Jul 2022 – Oct 2022

First system migration work (PHP and Laravel to Java, Spring Boot and Angular), plus support and networking.

PHP · Java · Spring Boot · Angular

SELECTED PROJECTS

A study platform with payments, access control and timed exams

cesaints.vercel.app/en/projects/study-platform

A security review of the business logic of my own system

cesaints.vercel.app/en/projects/business-logic-review

A multi-company onboarding platform with isolation in the database

cesaints.vercel.app/en/projects/multi-company-onboarding

This site

cesaints.vercel.app/en/projects/this-site

A corporate site and an in-house CRM at the edge, with privacy as a requirement

cesaints.vercel.app/en/projects/edge-crm

A national confederation's member system, modernized with the legacy still live

cesaints.vercel.app/en/projects/member-management

SKILLS

Languages: JavaScript (Node.js) · SQL (PostgreSQL, SQLite, MySQL) · TypeScript

Frameworks and libraries: Astro · Turborepo and pnpm monorepo · Next.js (App Router) · React · Tailwind CSS · Schema validation with Zod

Data: SQLite and Cloudflare D1 · PostgreSQL · Prisma · Supabase (Auth, RLS, Storage)

Authentication and access: Auth.js with mandatory TOTP 2FA · Custom authentication (modern hashing, opaque sessions, roles, audit trail) · Multi-tenant isolation with RLS

Infrastructure and delivery: Cloudflare Workers (D1, R2, KV) · Gated deploys and migrations (backup, verification, rollback) · GitHub Actions · Vercel

Testing: Security tests (isolation, role escalation, CSP, concurrency) · Vitest

AI in the product: LLM in the product with validated output and a spend cap

Security: CSP and security headers · Criticality-based rate limiting

Process: Architecture decision records · Runbooks and operations docs

Only what has strong evidence. The full list, with the evidence level of each technology: cesaints.vercel.app/en/stack

EDUCATION AND AWARDS

Postgraduate (lato sensu) in Process and Project Management

GRAN · Feb 2025 – May 2026

Postgraduate lato sensu.

Postgraduate (lato sensu) in Innovation, AI and Robotic Care

GRAN · Feb 2025 – Jul 2026

Postgraduate lato sensu.

Systems Analysis and Development (associate degree)

UDF University Center · 2022 – 2024

Technology degree.

2nd place, representing UDF

PMI-DF Hackathon · 2023

Second place as a team.

CERTIFICATIONS

- Scrum Fundamentals Certified · SCRUMstudy
- Registered Scrum Basics · Scrum Inc.
- Six Sigma Yellow Belt

LANGUAGES

- **Portuguese:** native
- **English:** technical reading and writing

Current version: cesaints.vercel.app/en/cv · updated Sep 24, 2026