Cristian Fernandes

Senior Software Engineer | Backend · Cloud · Distributed Systems

Brazil, open to remote · dnwest.dev · linkedin.com/in/cristianfernandes-dev · github.com/dnwest

SUMMARY

Backend engineer who builds systems that keep working when something breaks. Nearly 18 years in IT, from running on-premise infrastructure to shipping multi-tenant SaaS, billing engines and serverless workloads with Node.js, TypeScript and AWS. Sole developer and infrastructure owner at Grupo Pedramar, with fixed-term contracts through Dnwest. Writes about graceful degradation and runs a live demo of it.

SKILLS

Backend: Node.js, TypeScript, NestJS, Java, Spring Boot, REST APIs
Data and messaging: PostgreSQL, Prisma, Redis, BullMQ, AWS SQS/SNS
Cloud and infrastructure: AWS (Lambda, API Gateway, S3), Docker, Kubernetes, Terraform, CI/CD, Vercel, Railway
Reliability: circuit breakers, graceful degradation, structured logging, metrics and monitoring, k6 load testing
Front end: Next.js, React

EXPERIENCE

Senior Software Engineer, Independent Contractor

Dnwest · Remote · Jan 2023 to Present

Fixed-term contracts alongside a full-time role, owning the work from system design to cloud deployment.

- Multi-tenant SaaS in production for a confidential client: NestJS, Prisma and PostgreSQL behind a Next.js front end, with subscription billing and an access guard closed by default, so every new route starts locked
- Billing engine on AWS Lambda and API Gateway: Pix and boleto through Banco Inter over mTLS, cards through Stripe, and NFS-e issued automatically once payment is confirmed

Software Engineer & IT Infrastructure Specialist

Grupo Pedramar · Full-time, on-site · Dec 2008 to Present

Responsible for infrastructure, servers, networking and operational continuity, and today also for building the company's internal software.

- Sole developer and infrastructure owner: takes requirements straight from the business and delivers them end to end
- MeuHolerite: payslip portal that splits each store's payroll PDF per employee and publishes it through a queue, with files in a private bucket served only by short-lived signed URLs (NestJS, Next.js)
- HubCheck: digital pickups at distribution hubs with CPF and invoice validation, a photo of the signed receipt and GPS geofencing for audit, on a low-cost serverless stack
- Multi-tenant expiry and batch control (FEFO) and a BI dashboard on a star schema, with a separate BullMQ worker for asynchronous imports
- Primary point of contact for incident resolution and disaster recovery on business-critical environments

Full-stack Developer

Commercial & Industrial Association of Monte Alto · Contract, remote · Mar 2017 to Present

Public platform serving about 35k visitors a month, with a focus on performance, UX and security.

- Query and caching optimization: 30% lower TTFB and 45% longer average time on site
- Built and deployed 5 custom plugins, then rebuilt the site in Next.js to replace the long-running PHP platform

Back-end Developer

River Trading · Contract · Apr 2024 to Jun 2025

- Improved responsiveness and resilience of Java / Spring Boot services in a high-demand corporate environment
- Standardized CI/CD pipelines and deployment workflows
- Introduced structured logging, metrics and monitoring

Software Developer, Independent Contractor

Self-employed · Remote · Aug 2013 to Dec 2022

Fixed-term contracts delivering web applications in PHP and Java, moving to Node.js, TypeScript and AWS from 2020.

- Modernized legacy environments with AWS and Docker, cutting infrastructure costs by 30%

PROJECTS AND WRITING

- **Resilient Tetris:** playable live demo of graceful degradation. Visitors simulate database outages, slow responses and hung connections, then watch the circuit breaker open, the leaderboard fall back to its last known good data and scores wait in an outbox with idempotent submission until the system recovers
- **Resilient Node microservice:** Circuit Breaker (Opossum), fail-fast config validation (Zod), structured logging (Pino), k6 load testing and multi-stage Docker
- **Engineering blog:** series on graceful degradation, circuit breakers, read-only modes and cloud cost

EDUCATION

- **Rocketseat**, continuing education, Sep 2023 to Present
- **Certified Tech Developer, Full Stack**, Digital House Brasil, 2021 to 2023
- **C# Programmer**, Prepara, 2015 to 2017
- **PHP**, Prepara, 2013 to 2014
- **Java Desktop Developer**, Informaticon, 2011 to 2013
- **Technical Course, Information Technology**, SENAI Ribeirão Preto, 2005 to 2008

LANGUAGES

Portuguese (native) · English (A2, pre-intermediate; strong technical reading)