

JOSUÉ CARVALHO

Senior Software Engineer | Backend Node.js • NestJS • TypeScript

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SUMMARY

Backend Software Engineer with 4 years of experience building business-critical production systems, focused on fintech: payroll-deductible lending, Open Finance, payments and banking integrations. Specialist in Node.js, NestJS and TypeScript, with hands-on experience in Python, Java (Spring Boot), Go and PHP (Laravel).

Experienced in microservices architecture, DDD, messaging (RabbitMQ, BullMQ), observability (Datadog, Grafana), CI/CD and AWS. Built a payment institution's backend from scratch and owned an award-finalist logistics system end to end, from code to infrastructure.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, Go, PHP, SQL

Backend: Node.js, NestJS, Express, Fastify, Spring Boot, Laravel, REST APIs, WebSockets

Architecture: Microservices, DDD, Clean Code, Repository Pattern, Design Patterns, Messaging

Data and queues: PostgreSQL, MongoDB, Redis, RabbitMQ, BullMQ

Cloud and DevOps: AWS (ECS, EC2, RDS, S3, Lambda, Cognito, Load Balancer), Docker, CI/CD

Observability and testing: Datadog, Grafana, Jest, Cypress

Front-end and mobile: React, Next.js, Vue.js (Quasar), React Native (Expo)

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Aug 2025 - Sep 2026

Teddy Open Finance

Remote

- Built and maintained NestJS and Python microservices for payroll-deductible lending and Open Finance, in high-availability, business-critical flows.
- Integrated partner bank APIs such as Banco Pan, BRB, Caixa and Semear, as well as AI services.
- Defined architecture and design patterns for new services (Repository Pattern, Clean Code) and documented technical flows.
- Implemented observability with Datadog and Grafana, making incident analysis faster and more traceable.
- Created and evolved CI/CD pipelines, reducing deployment failures.
- Messaging with RabbitMQ, persistence with PostgreSQL and MongoDB, caching with Redis, and AWS (ECS, RDS, S3, Cognito) in production; contributions to Spring Boot services.

Senior Full Stack Software Engineer

Jul 2024 - Aug 2025

SGBr Sistemas

Remote

- Built from scratch, as one of two backend engineers, the backend of a banking platform that evolved into a payment institution, using a scalable DDD architecture.
- Integrated APIs from Santander, Banco do Brasil, Correios (Brazilian Postal Service) and Melhor Envio.
- Microservices in NestJS, Go and Laravel with BullMQ queues, PostgreSQL, MongoDB and Redis; migrated a Laravel admin panel to NestJS for performance.
- Automated tests with Jest and standardized environments with Docker, improving consistency across developers.
- Landing page and web apps in Vue.js (Quasar); supported the mobile team with React Native (Expo).

Full Stack Developer

Oct 2023 - Aug 2024

FST Tecnologia (contractor at Águas do Paraíba)

Campos dos Goytacazes, Brazil

- Created Separa Mais, an asset management and warehouse logistics system with WhatsApp API and push notifications. Finalist at Grupo Águas do Brasil's Innovation Week and approved under Brazil's Lei do Bem innovation incentive.
- Owned it end to end: NestJS backend with BullMQ and PostgreSQL, React/Next.js frontend and an Android app in React Native (Expo).
- Owned the entire AWS infrastructure: ECS, EC2, RDS, S3, Lambda and Load Balancer.

- Built a daily equipment report system for third-party contractors, eliminating paper usage and month-end closing errors.
- Automated tests with Jest and Cypress.

Web Developer (Apprentice)
Grupo Águas do Brasil (Águas do Paraíba)

Oct 2022 - Aug 2023
Campos dos Goytacazes, Brazil

- Lead web developer in the IT department: built a product catalog with authentication and shopping cart, adopted by the group's utilities.
- Responsive websites with HTML5, CSS, Sass, Bootstrap and JavaScript, applying SEO and accessibility best practices.

Freelance Full Stack Developer
Self-employed

Mar 2023 - Present
Remote

- JC Flows: my own platform for email campaigns and WhatsApp customer service with AI agents, used by partners.
- Websites for QZ4 Escapamentos, Floricultura Formosa and two candidates in Brazil's 2026 elections, built with Laravel and Next.js.

EDUCATION

Associate Degree (Technologist) in Systems Analysis and Development
Estácio

Mar 2023 - Mar 2026

LANGUAGES

Portuguese: native · English: advanced · Spanish: basic

COURSES AND CERTIFICATIONS

- NLW Expert, Node.js track (Rocketseat)
- Next.js 14 & React - The Complete Guide (Udemy)
- NodeJS - The Complete Guide (Udemy)
- React: From Zero to Mastery (Udemy)
- JavaScript Developer Program (DIO)