

Cássio da Silva Carneiro

Senior Programmer with over 20 years of experience

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Competências

Systems Analysis, Frontend and Backend Developer, Desktop Developer, Mobile Developer

Node JS, Java, C, PHP, Python, JavaScript, CSS, HTML, Delphi,

Next JS, React JS, React Native, Nest JS,

TypeScript, GraphQL, JSON, XML, Natural Language Processing, NLP, Digital Image Processing, Web Request Interpretation, API,

Clean Code, Clean Architecture, Unit Testing, Integrated Testing, E2E Testing, S.O.L.I.D, TDD, Algorithm Design, Systems Architecture, Agile Methodology,

MongoDB, Big Query, MySQL, SQL and NoSQL, Databases in General,

Git, GitHub, Docker, Docker Composer,

Shell Script, Batch, Linux, DOS, SSH, FTP,

Figma, Azure Devops, Jenkins, Vim, Adobe Photoshop, Adobe XD, Corel Draw, Microsoft PowerPoint, Microsoft Word, Microsoft Excel, Microsoft Windows,

JQuery, Apache Server, Adobe After Effects, Assembly Language, Machine Code, jsx, Google Chrome Extension, Apache Cordova, Designer, Musician

Experiência

WEG, Jaraguá do Sul/SC - Senior Frontend and Backend Programmer

May 2024 - July 2025

I worked as a senior front-end and back-end developer, focusing on development and improvements, involving Java, JavaScript, HTML, CSS, MongoDB, NodeJS, NextJS, Tailwind, and complex algorithms.

DBC Company / Eye / Getnet, Porto Alegre/RS - Senior Frontend, Backend and Security Programmer

October 2023 - May 2024

I worked as a senior front-end and back-end developer, focusing on data security and access restrictions, involving Java, JavaScript, HTML, CSS, MySQL, NodeJS, and complex security and intelligence algorithms.

DBC Company / Unimed Porto alegre, Porto Alegre/RS - Senior Frontend and Backend Programmer

November 2020 - October 2023

I worked as a technical lead and developed frontend and backend systems, mainly involving React JS, Node JS, Next JS, JavaScript, CSS, HTML, as well as using and implementing many technologies such as DialogFlow, Jenkins, Azure DevOps, MySQL, SQLLitter, MongoDB, OracleDB, etc.

NTD Soft, Recife/PE - Systems Analyst and Senior Frontend and Backend Programmer

December 2010 - November 2020

I've worked in various areas of front-end and back-end programming, using Javascript, HTML, CSS, PHP, Node JS, React JS, React Native, Delphi, Shell Script, MySQL, and NoSQL. I've also worked in server security and administration, design, and art, as well as being a development lead and consultant.

JBC Productions, Recife/PE - Senior Frontend and Backend Programmer

February 2007 - December 2010

I worked as a web programmer using PHP, JavaScript, CSS, and HTML, and also worked as a designer, video editor, and maintenance technician.

Forrozoão Productions, Recife/PE - Full-time programmer and designer

January 2006 - February 2007

I worked as a web programmer using HTML, JavaScript, CSS, and PHP. I also provided design support.

Autônomo, Pernambuco - Junior Programmer and Designer

January 2000 - January 2006

I've worked as a programmer using HTML, JavaScript, CSS, PHP, and Delphi Pascal, and also as a designer, network administrator, and technician for various companies and entrepreneurs.

Projetos

WEG - Legacy project improvement, Studio project

Tecnologias: java, javascript, html, css, mongodb, nodejs, nextjs, tailwind, and complex algorithms
Fault and performance tuning of legacy systems.

WEG - Legacy project improvement, Configurator project

Tecnologias: java, javascript, html, css, mongodb, nodejs, nextjs, tailwind, and complex algorithms
Fault and performance tuning of legacy systems.

WEG - Legacy project improvement, Simulator project

Tecnologias: java, javascript, html, css, mongodb, nodejs, nextjs, tailwind, and complex algorithms
Fault and performance tuning of legacy systems.

WEG - Legacy project improvement, Stage project

Tecnologias: java, javascript, html, css, mongodb, nodejs, nextjs, tailwind, and complex algorithms
Fault and performance tuning of legacy systems.

DBC Company / Eye / Getnet - Legacy project improvement

Tecnologias: java, javascript, html, css, mysql, nodejs, and complex security and intelligence algorithms
Verification of unsafe points and solution strategies for them.

DBC Company / Eye / Getnet - Legacy project improvement

Tecnologias: java, mysql
Rebuilding 80% of a years-old legacy project in Java, to improve security and update services.

DBC Company / Eye / Getnet - mobile security

Tecnologias: nodejs, mysql
I worked on a backend project for mobile devices that aimed to provide login security management, background data updates for insecure passwords, encryption changes for better security, and other strategic actions to improve security without impacting customers.

DBC Company / Unimed Porto alegre - Monitoring Customer x Agent Conversations

Tecnologias: NextJS, NodeJS, Typescript, Jest, Mongo DB, Json Web Token, Blip Api
In this project, I had to build a chat management system which was responsible for checking and displaying incoming, overdue, and even old messages. This system flagged messages so that customers could be quickly identified on hold and in other situations. For this system, I built a frontend and backend. In addition to using a MongoDB NoSQL database, the system also recorded logs, maintained background executions to synchronize BLIP data with local data, and the system was also password-controlled. I developed the entire system, design, code, and strategies, from end to end. It was composed of best practices and unit tests.

DBC Company / Unimed Porto alegre - webhook chatbot

Tecnologias: NestJS, NodeJS, Typescript, Jest, Mongo DB, Json Web Token, Blip Api
This was a legacy project that was passed on to me during my time at Unimed. My mission was to fix the flaws and bugs it contained, create unit tests, and improve it. This system was actually a backend that supported the conversation developed and managed by Blip Desk technology, ensuring proper communication between Blip's chat and Unimed's data. It consisted of best practices and unit tests.

DBC Company / Unimed Porto alegre - PAD - Chatbot

Tecnologias: ReactJS, NodeJS, Typescript, Jest, Mongo DB, Json Web Token
This was a chatbot where customers could consult their symptoms and receive guidance. Regarding this, I built the front-end chatbot and the backend that managed it. I also built an AI on the front-end without third-party dependencies, using only mathematics and strategies involving NLP algorithms. The goal of the intelligence was to understand symptoms regardless of what was typed. For example, the system could associate the phrase "I have a bad headache" with migraine, nausea, and other symptoms. In this project, I was responsible for coordinating three other developers who supported me in the development. It consisted of best practices and unit tests.

DBC Company / Unimed Porto alegre - PAD - Video call

Tecnologias: NextJS, NodeJS, Typescript, Jest, Mongo DB, Json Web Token, Blip Api
This was a system that linked to the chatbot, the goal of which was to facilitate communication via video, phone, and/or chat between a client and a doctor. In this project, I was responsible for coordinating three other developers who supported me in the development. It consisted of best practices and unit testing.

DBC Company / Unimed Porto alegre - ReactJS, NextJs, and NodeJs architectural patterns

Tecnologias: ReactJS, NextJs, and NodeJs architectural patterns
Along with two other devs, I was responsible for defining and developing the architectural standards for technologies involving NodeJS, ReactJS, and NextJS.

NTD Soft - Grades Portal

Tecnologias: ReactJS, NodeJS, PHP, MySQL
I developed a front-end and back-end grading system with the aforementioned technologies. Users could configure multiple tables in the system's built-in design manager. They could also configure formulas and print them. In short, I managed everything related to grading.

NTD Soft - Intelligent Proof System

Tecnologias: ReactJS, NodeJS, PHP, MySQL

I developed a system that generated tests and then the results of those tests were recognized simply by scanning them and sending them to this same system, which interpreted the images and recorded the results in the database.

NTD Soft - Exercise system

Tecnologias: ReactJS, NodeJS, PHP, MySQL

I developed an exercise system where teachers would register exercises and tests, and students would access and answer them via cell phone or PC. The system would randomly select exercises and answers, making it difficult for students to exchange information.

NTD Soft - Student portal

Tecnologias: ReactJS, NodeJS, PHP, MySQL

I developed a complete system for students to have access to everything: absences, data, schedules, grades, tests, etc.

NTD Soft - Student application

Tecnologias: React Native, NodeJS, PHP, MySQL

I developed a comprehensive app for students to access everything: absences, data, schedules, grades, tests, etc.

NTD Soft - NTD Soft attendant portal

Tecnologias: NextJS, NodeJS, MySql, ShellScript, Linux

I developed a complete system that NTD Soft employees and support staff used to manage the clients and server.

NTD Soft - Teacher Portal

Tecnologias: ReactJS, NodeJS, PHP, MySQL

I developed a complete system where teachers managed everything: subjects, tests, grades, students, personal space, etc.

NTD Soft - NTD Soft Servers

Tecnologias: Linux, ShellScript, MySQL, PHP, Apache, PM2, Docker

I was responsible for reviewing and rebuilding the entire NTD Soft server infrastructure, including security. In the early years, I had no responsibility for this area, but after server issues and ideas I came up with, I was given full responsibility.

NTD Soft - Data Synchronizer

Tecnologias: Delphi and Java

Since access was very limited at some schools, especially in the countryside, the system needed to work offline. So, a MySQL database was installed on the client's machines. To keep the data synchronized, I developed the program in Delphi. The program, which ran in the tray, analyzed the data online and offline, analyzed the network and its quality, and performed all the synchronization. Since some machines had problems with the system, I also developed a Java version.

NTD Soft - Customer service chat

Tecnologias: HTML, Javascript, CSS, PHP

I created a high-performance, low-consumption/cost chat for use by NTD Soft agents and their customers.

NTD Soft - AI - Virtual Assistant

Tecnologias: HTML, Javascript, PHP, CSS, Photoshop, Corel Draw

I created a virtual assistant in the form of an animated emoji that responded to customer questions with artificial intelligence. The goal was to minimize the workload for agents. In the first month, there was a 20% reduction in calls.

JBC Productions - JBC's website, event, and advertising designs for the Italiana restaurant in Recife, Pernambuco

Tecnologias: HTML, Javascript, PHP, CSS, Photoshop, Corel Draw, After effect

I developed the company's event videos and designs, as well as a mini-system for event management.

Forro  o Productions - Calango Aceso Websiite

Tecnologias: HTML, PHP, Adobe Flash, Corel Draw, Photoshop

I developed the website for the band Calango Aceso and its entire design.

Forro  o Productions - Mel com terra Websiite

Tecnologias: HTML, PHP, Adobe Flash, Corel Draw, Photoshop

I developed the website for the band Mel com Terra and its entire design.

Biox - Company website

Tecnologias: HTML, PHP, javascript, Corel Draw, Photoshop

It was a clothing company with little time, they wanted to develop a website to display the clothes and contact them, they didn't have online sales, so I created the website as desired.

Forma  o e certificados

CS50's Introduction to Computer Science

[Harvard](#)

2023

Online international course at Harvard where they teach Structural, C, Python, SQL, Algorithms, HTML, CSS, Javascript, Flask, Emoji, Memory, and Cybersecurity

NodeJs, Typescript, TDD, DDD, Clean Architecture e SOLID

[Rodrigo Manguinho - Udemy](#)

2022

47.5 hours of course with Rodrigo Manguinho, Certificate Code UC-a8617840-cf8a-4980-97d1-5f5d8462758e, certificate link: <https://www.udemy.com/certificate/UC-a8617840-cf8a-4980-97d1-5f5d8462758e/>

Learn all about the best NoSQL in the world, MongoDB!

[Vitor Mazuco - Udemy](#)

2020

8.5-hour course with Vitor Mazuco, Certificate Code UC-956caca1-c6c1-4f0d-abdf-5200a9b84fb6, certificate link: <https://www.udemy.com/certificate/UC-956caca1-c6c1-4f0d-abdf-5200a9b84fb6/>

React Native: Develop Native APPs for Android and iOS

[Cod3r - Udemy](#)

2017

45-hour course with Leonardo Moura Leita0 and Francisco Wagner Costa Aquino. Cod3r Online Courses. Certificate code UC-588283d3-8010-4638-82b8-0d858d869f71, certificate link: <https://www.udemy.com/certificate/UC-588283d3-8010-4638-82b8-0d858d869f71/>

Node.js Training

[Programmer's Guide - Udemy](#)

2015

50-hour course with Victor Lima from the Programmer's Guide. Code certificate UC-7822d2d7-93fc-4383-b88c-9d152a6ec824, certificate link: <https://www.udemy.com/certificate/UC-7822d2d7-93fc-4383-b88c-9d152a6ec824/>

Complete Java 2023 - Object-Oriented Programming + Projects

[Nelio Alves - Udemy](#)

2023

54.5 hours of course with Nelio Alves. Certificate code UC-be9880bf-91ec-476f-8e0c-5f85ba7ea6b2, certificate link: <https://www.udemy.com/certificate/UC-be9880bf-91ec-476f-8e0c-5f85ba7ea6b2/>

Chatbot with JavaScript

[Ben-Hur Varriano](#)

2020

15-hour course with Ben-Hur Varriano, Code Certificate UC-f224ef26-73e2-4d28-8ee8-b607062a91fb, certificate link: <https://www.udemy.com/certificate/UC-f224ef26-73e2-4d28-8ee8-b607062a91fb/>

High school

[President Humberto Castelo Branch School](#)

2003

Educational background

Falando de algumas competências

Node JS

For me, it was revolutionary in its simplicity and concept, JavaScript on the backend with a simple, secure, fast, and dynamic programming pattern, and a huge community. It was love at first sight. I started studying Node.js around 2015 and started using it on all my current systems starting in 2018. With all the support of libraries like Express, ease of handling SSL certificates, independence and speed of server setup, etc., I love Node.

NextJS, React JS, React Native

React was revolutionary in my opinion. Everything web programmers wanted and sought was incorporated into React. I was reluctant about this framework and thought it was overhyped, but to my surprise, it was something I'd been looking for for a long time. I'd say 95% of my front-end projects use this technology, whether native or JS. I started designing with it in 2017, and it's been like this every day, from Sunday to Sunday, since I'm a coder and React is in everything I do, that's it! I'm very experienced, and with daily practice, this has helped me advance a lot.

TypeScript

I discovered TypeScript around 2018 and I confess it was very easy to learn. After all, it's refactored JavaScript, so to speak. Typing was innovative for JS. I use it in all my current projects because it helps a lot with development and maintenance, and it's rewarding.

Git / Git Hub

Every programmer needs Git; it's practically a law, great for storage, organization, information retrieval, deployment, teamwork, and much more. Everything goes to Git; all my projects are there. I've been using it since 2019, and it helps me with everything.

Tests

I started working with testing in 2019 and I'm amazed at how much the margins for coding errors have decreased since I started applying TDD, unit, integration, and E2E testing. I use Jest and focus on TDD. All my current projects follow the TDD standard to ensure their future performance, even after maintenance.

GraphQL

I learned about this language through an interview in 2023. It's very interesting, dynamic and super easy to learn. It's already part of my daily routine.

SQL

The language I learned working at NTD Soft wasn't just basic stuff like select, insert, update, delete, and join. I also studied procedures, functions, advance programming, data science, views, MySQL administration, structuring, backup, maintenance, etc. I never focused on MySQL books, despite having a few, but I always enjoyed studying the official documentation, not only for MySQL, but also for other languages.

NoSQL

I studied NoSQL in 2019, but I started using it a lot in 2020 and fell in love with it. I'm not dismissing SQL; for me, both have their strengths and weaknesses.

JavaScript

One of the languages I found unbearable many years ago because of its irregularities between browsers, but which has grown so dramatically that it has become my favorite. I've always used JS in the past to do basic things like drop-down menus, banners, slides, etc. Today, whenever I program without using React, I do almost everything in JavaScript, thus bringing more dynamism to projects. I'm experienced and advanced; I have no difficulty with this language.

CSS

A language I looked at around 2006 and thought was useless, but since 2007, it's been a crime not to use CSS in any web project. It doesn't exist. I've created countless websites, web apps, and even local documents with independent HTML extensions, like this resume, and it's impossible to create something good without CSS.

JSON

For me, it's far superior to XML, a supreme data communication strategy especially focused on APIs. I highly recommend it because of its lightness and simplicity.

HTML

I discovered HTML when I was 13 at a computer school called Malba Lucena, in 1997. I remember the joy I felt when I saw those tags take shape; it seemed magical. I still use it today. HTML, for me, is something that won't die anytime soon and has made history.

Linux

What an incredible operating system! I've had experience with Windows since 1997, but as a programmer, I consider Linux the best operating system: fast, simple, a great shell, and security. All my web projects have been developed on Linux since 2012. I have a lot of experience using both terminal and desktop. You can give me Linux, and I'll have it ready very quickly, not only as an operating system but also as a complete web server for hosting multiple clients.

JQuery

A framework that I consider almost dead today, but which left its legacy with honor. I used it a lot because of its extreme ease of programming, but almost everything was focused on interacting with arrays, nodeLists, and Ajax, things that today you can find very well-founded in JavaScript itself and in other components like fetch and Axios, for example.

Delphi

I started studying the language around 1999, and I started creating programs with it around 2000, the old Delphi 7, where I really began to understand the power of programming. My first project was a program for a rental company, for which I charged less than 100 reais at the time. I had no idea of the value of this work at the time, especially since where I lived, I was the only one programming and I didn't know anyone else. The last time I developed on this platform was around 2018, when I was refactoring a data synchronization system between an online and a local bank.

PHP

I've been working with PHP since 2000, working on many projects for companies like JBC Produções, Forrozão Produções, NTDSOFT, and many private projects for businesses, offices, social media, stores, etc. These days, I prefer to work with Node, but I still work a lot with PHP and I haven't stopped enjoying this language, which is still growing.

ShellScript and DOS/BATCH

Script file creation has always been a great way to streamline many tasks, processes, and more complex deployments. I've been working with Windows scripts since 2000 and with Linux scripts since 2012. I find it essential for anyone managing servers and networks and very useful for speeding up production work. I always use it in all my work, such as deploying local servers and VPSs.

Vim

More of an editor than a language, although its real management is always the codebase. I didn't even want to know about Vim; I always ran to Nano, but because of a friend of mine who's a network expert and also my tutor in many things in this area, he always talked about Vim very repetitively and ended up piquing my curiosity around 2017. The only difficulty was the habit of using an editor that works with the codebase, but once you learn, you don't want to stop. I always make file adjustments via terminal or ssh using Vim; I can't even remember the last time I used Nano.

Servidor Apache

I've built countless Apache servers, I've been working with Apache since 2014, but I confess that I hate it. It was one of the reasons that drove me to study Node.

XML

Very good and useful for a long time, but today I consider JSON to be way ahead of the curve and I only work with XML when it's really necessary. My experience with XML dates back to 2004.

Assembly

I started studying assembly and assembler in 2002. I've always been curious about how technology works, so much so that when I was a child, I was always trying to understand electronic devices, and at the age of 8, I was already helping my father and brothers fix the joysticks of the Super Nintendo, Nintendo, and Mega Drive they had at home (it was a game rental store). This same thought led me to study assembly and assembler. I remember that I've built some ".com" programs just by typing bytes and spent a lot of time messing around with it. It's been a few years since I last used it, but I remember a lot of it still, like mov, add, registers, and during that same time, my binary knowledge evolved a lot.

Adobe XD and Figma

XD was a huge surprise for me. It's a brilliant and easy-to-use platform for planning project design. I always use it on all my projects because it's a great help in transforming programming results into masterpieces. I started working with it in 2019. Previously, I used Corel Draw and Photoshop to plan projects. But today, I focus on Figma. The bureaucracy of using XD was too tedious, leading me to migrate to Figma, which is very simple to use and for the team.

MVC, Clean Code, Clean Architecture and SOLID

I've always looked for ways to effectively organize my code, but it was exhausting, it never looked right to me. Learning these coding techniques was groundbreaking for me, and I'm passionate about them, something I'll cherish forever.