

Years of experience

Technical Skills

Skill

Node.js

Matheus Costa in () **Senior Software Engineer** Experienced Software Engineer with a focus on web development, bringing 8 years of industry experience to the table. Proficient in Node.js,

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TypeScript, React, Vue.js, Lua, and C++, I possess a strong drive and ambition to utilize my skills in creative problem-solving. My goal is to design, develop, and optimize systems and software that drive growth and sustainability. With a proven track record, I confidently approach complex challenges, delivering innovative solutions of the highest quality.

8 years

8

TypeScript	6	Expert
JavaScript	6	Expert
HTML	6	Expert
CSS	6	Expert
React	4	Expert
C++	3	Intermediate
Lua	3	Intermediate
Vue.js	2	Intermediate
Python	1	Intermediate
PHP	1	Basic
Angular	1	Basic
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Additional skills: **Years** Level **AWS** Git Docker Kubernetes Expert Puppeteer MUI Jest Cypress Optimizations Scrum GraphQL AWS CloudFront **AWS SES AWS EKS** Express.js Next.js Protobuf

Terraform Webpack Kanban

GraphQL

MSW

Gulp Agile TDD AWS Lambda

MySQL

AWS Elastic Beanstalk

PostgreSQL

CI/CD

Linux

Electron

MongoDB

Github Actions

MVC

Vuex

SES

EKS

Lambda

Serverless

2 years 8 months

July 2020 - March 2023

May 2020 - July 2020

January 2017 - November 2018

December 2016 - July 2020

3 years 7 months

1 year 10 months

2 months

Prisma

Gitlab CI

Redux

REST

Sass

Web Sockets

AWS S3

Nest.js

October 2024 - Present

February 2023 - September 2024

1 year 8 months

Tailwind

Software Engineer

Jest

gn Management App - Testing Suite etry is a leading digital marketplace for on-demand manufacturing services, ecting customers with a global network of manufacturing partners to streamline the production process and deliver high-quality parts. Implementing scenario and unit tests for the Campaign Management App using Jest, React Testing Library, MSW, and GraphQL mocks. React Testing Library **Full Stack Engineer Blue Orange Digital Lead Developer - Insight Partners** • Insight Partners is a leading global venture capital and private equity firm specializing in high-growth technology investments, providing strategic guidance, operational support, and capital to help companies accelerate their growth and achieve their goals. • Developing and maintaining the back-end infrastructure for a cutting-edge platform designed for Insight Partners' portfolio companies. • Implementing robust and scalable solutions to ensure seamless integration with various services and systems. • Playing a key role in building the platform's core functionalities, such as initiating advisory engagements and facilitating access to the Scaleup Academy. • Collaborating closely with cross-functional teams, including front-end developers and designers, to deliver a cohesive and user-friendly platform experience.

 Optimizing the performance and reliability of the platform through thorough testing, debugging, and continuous improvement. • Ensuring the security and integrity of the platform by implementing best practices and following industry standards. • Designing and developing APIs to facilitate data exchange and integration with external systems. Collaborating with stakeholders to gather requirements, identify opportunities for improvement, and propose innovative solutions. • Participating in agile development processes, including sprint planning, daily standups, and retrospective meetings. Next.js Nest.js Tailwind SQS Docker

Front-end Engineer Rock **Rock Front-end** https://rock.so/

users.

Vue

Universidade Federal Fluminense

https://covid19.getuff.com.br/

and SEIR.

Python

Teaching Assistant

university.

Problem Solving

Universidade Federal Fluminense

with the laboratory class.

through the year to other departments.

C/C++ & Full-Stack Developer

Python

Problem Solving Laboratory

COVID-19 Research Group GET-UFF

particle swarm optimization method.

of the university and the government in those decisions.

Data Analysis

invited to give a presentation of the project and show the outcome of those efforts

Optimization

problems and create elaborate solutions.

Kubernetes Terraform

• Contributed to the development of Rock, a purpose-built platform for remote work that enables a seamless transition to a more asynchronous way of working. Rock offers a combination of messaging, task management, note-taking, video calls, and file sharing to facilitate a wide range of activities, from product development to recruiting and marketing campaigns. • Joined as a Front-End engineer, acquiring proficiency in Vue.js, Vuex, Protobuf and • Played a pivotal role in making key technical decisions regarding the project's architecture, proposing and implementing multiple refactors that enhanced the development process, user experience, and application performance. Successfully implemented numerous core features of the application, including the task board, time tracker, chat virtual scroller, task virtual scroller, and many more. • Helped porting the application to Electron using Node.js, facilitating its release across multiple platforms, including Windows, Linux, and Mac. The project is still ongoing and continues to experience growth, with thousands of active Vuex TypeScript Electron **COVID-19 Researcher**

SCSS Node.js • Used Python and R to make graphs and predictions using those models.

PostgreSQL

Node.js

React Query

MUI

Axios

AWS

S3

CloudFront

Prisma

• Worked with the modeling team building visualization tools, data scraping algorithms to gather data from official government sources, epidemiology models such as SIR • In charge of parameter optimization in Python using a modified version of the It was used by the local government to make key decisions on how to fight the COVID pandemic, with my university's city being one of the lowest cases due to the cooperation

Protobuf

Web Sockets

• Aided freshmen in the first semester of Computer Science to evaluate ICPC The problems were solved in Python as it was the first language they teached in my • In charge of a lot of problem solving to gather a list of problems and topics to improve the classes by better matching the content of other programming classes Won an award of best teaching assistant in the department of computer science and was

Open Source

GraphQL

Prisma

Freelancer The Forgotten Server https://github.com/otland/forgottenserver Successfully completed various freelance projects, ranging from Full Stack web applications to MMORPG private servers with tens of thousands of players, gaining expertise in debugging multithreaded servers, reverse engineering game network protocols, and DLL injection. • Gained valuable experience as a software developer by actively contributing to an open-source project with a thriving community. • Benefitted greatly from diverse interactions with individuals from various backgrounds and skill sets while working on the implementation of a popular game server written in C++. The server incorporates a Lua-based scripting system. Consulted by numerous individuals seeking guidance on enhancing their projects, including bug fixes to prevent crashes and performance optimizations for improved server performance. • Developed multiple websites to facilitate user interaction with the server, enabling account and character creation. Utilized technologies such as PHP, MySQL, HTML, and CSS. The project continues to thrive with a significant user base. C++ Lua TypeScript Node.js **Network Protocols** MySQL PHP HTML CSS React DLL Injection MongoDB Mkalo.dev https://github.com/Mkalo/my-portfolio Developed my personal website using the RedwoodJS framework with React, TypeScript, Tailwind, GraphQL and Prisma. Integrated the website with Vercel deploying it to the edge, providing a fast and reliable experience to the users. • Implemented a PDF renderer to generate a resume PDF dynamically from the website using Puppeteer, deployed to AWS Elastic Beanstalk. AWS Lambda AWS Elastic Beanstalk HTML CSS RedwoodJS Tailwind React TypeScript Node.js Zippia Clone https://github.com/Mkalo/zippia-project • Developed a clone of the Zippia website using Next.js, React, TypeScript, Tailwind and Axios. Next.js React TypeScript Tailwind Axios **Benchmark Node Native Addons** https://github.com/Mkalo/benchmark-node-native-addon • Developed a benchmark to compare the performance of Node.js native addons with pure JavaScript. C++ Node.js JavaScript NAN Open Source **TypeScript Otserver** https://github.com/Mkalo/typescript-otserver Developed project in TypeScript, where the goal was to learn TypeScript by implementing the server and protocol of a MMORPG, similar to the open-source one in C++. TypeScript Node.js MongoDB Open Source WeeaBot https://github.com/Mkalo/WeeaBot • Worked on WeeaBot, a project to learn TypeScript, Node.js, Angular by implementing a multi-platform chat bot for Discord and Twitch. • Separated it in three repositories: WeaaBot, main application for express API and Discord Bot. Wrote in TypeScript and used MongoDB for storage and Express.js for API. WeaaBotTwitch, the bot for Twitch that would connect to the IRC channels to interact with users on Twitch. WeaaBotWeb, website for the bot to show statistics and allow the user to login/register. TypeScript Node.js MongoDB HTML CSS Angular Bootstrap **Electron-PixiJS-TypeScript** https://github.com/Mkalo/electron-pixijs-typescript • Developed a template project that had everything to get started building a game for both web and desktop using TypeScript, Electron and PixiJS. Electron TypeScript PixiJS Open Source Webpack Gulp

᠍ Side Projects

September 2016 - June 2021

Bachelor of Computer Science

January 2013 - December 2015

High School

2023

2017

2016

Universidade Federal Fluminense

Public School Herbert de Souza

First place in the Insight Partners Hackathon

Third place in the Programming Marathon during the Computing Week event at the Federal Fluminense University

First place in the Programming Marathon during the Computing Week event at the Federal Fluminense University

Second place in the Programming Marathon at Visagio's 2016 Programming Marathon

Awards