

FABIO COUTINHO DOS SANTOS

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PERSONAL STATEMENT

Experienced full-stack developer proficient in Node.js, Express, NestJs, Laravel. Strong background in REST API development, Docker-based microservices, and GCP deployment (Cloud Run, Cloud Function, Cloud Pub/Sub). Skilled in CI/CD automation with Cloud Build. Frontend expertise in Laravel, Angular, React, Bootstrap. Seeking challenging full-stack/back-end software engineering roles to contribute to end-to-end solutions and embrace continuous growth.

TECHNICALS SKILLS

Programming languages

C, C++, Js, Ts, Python, PHP, Go

Databases

MongoDb e MySQL

Development Frameworks

Ionic, React Native, React, Angular, NodeJs, NestJs, Laravel, Bootstrap, Express.js

Programming tools

Docker, Docker-compose, k8s, Nginx, Git, Swagger, Postman, Jira, Tensor Flow

Cloud services

Digital Ocean - VPS
AWS - EC2, S3
Google Cloud - Cloud Functions, Cloud Run, Cloud Build, PubSub

ACADEMIC EDUCATION

Master's in Computer Science

Emphasis in Software Engineering and Computer Systems
2019 - 2022
Pontifícia Universidade Católica de Minas Gerais / PUC-MG

Degree in Computer Engineering

2013 - 2018
Pontifícia Universidade Católica de Minas Gerais / PUC-MG

WORK EXPERIENCE

Mensis

Fullstack developer (2020 / Current)

Working on an electronic workpoint system and lot projects, I developed REST APIs with Node.js, Express, NestJs and Laravel, integrated with MongoDb and MySQL databases in addition to front-end development using Ionic, Angular, Laravel and Bootstrap. Microservices designed and deployed on GCP using Docker, Cloud Run, Cloud Functions and Cloud Pub/Sub in the above languages as well as Python and Go. Elaboration of triggers in GCP for automated delivery with CI/CD in Cloud Build. Collaborating cross-functionally from the creation of solutions to their development, testing and documentation. Task management through Jira.

4Cadia

Fullstack developer (2022-03 / 2022-06)

Working on a horse racing betting system, I was responsible for developing, testing and documenting new features in a REST API using NestJs. In addition, I also developed new front-end functionality using Bootstrapp 5 and Angular. Task management through Jira and Figma.

Capes - PUC Minas

Resarcher (2019 / 2022)

During my master's degree in computer science I had the opportunity to combine academic research with development in several works, building REST APIs with Node.js / Express.js, in addition to front-end and mobile frameworks such as Angular, Ionic, Android and React Native.

ACADEMIC PUBLICATIONS

IoTSafe: Attack Detection Based on Deep Neural Networks - 2023

<https://sol.sbc.org.br/index.php/conv/article/view/24579>

IoTSafe - An Architecture based on Fog Computing to Provide IoT Security - 2021

<https://sol.sbc.org.br/index.php/wcga/article/view/17121>

Understanding the Performance Impacts Of Cross-Platform Development On IoT Applications - 2019

<https://dl.acm.org/doi/abs/10.1145/3428658.3431082>

AWARDS

Graduation Gold Medal - 2018

Highest grade point average of the Computer Engineering Undergraduate class close to 91

LANGUAGES

Portuguese - Native

English - Level C2 (EF SET Assessment)

In the elaboration of my dissertation, I had the opportunity to work on the construction of a deep neural network, combined with a REST API as a reinforcement of network security in IoT applications. For that, I used TensorFlow and Python, in addition to Node.js and Express.js.

OWN PROJECTS

4Cadia technical test (2022)

Full stack system that simulates banking operations developed as a technical test for the company 4Cadia. As a back-end, a REST API was built with Node.js, Express and Mongo Db. In the front-end, Angular 13 and Bootstrapp were used. The front-end was deployed at Vercel and, on the other hand, the Back-end is hosted on a Digital Ocean VPS, where MongoDB is also installed along with NGINX to route the REST API. To access the application use the user 'rc@gmail.com', with the password 'Rcarlos20'.

Swagger API documentation: <https://68.183.96.109/doc>
<https://front-4cadia-j7u3-fabio-coutinho-dos-santos.vercel.app/>