

FABIO COUTINHO DOS SANTOS

www.linkedin.com/in/fabio-coutinho-dos-santos-0ba58a18b

<https://github.com/fabio-coutinho-dos-santos>

<https://portfolio-inky-six-97.vercel.app>

+55(31)985458015

fabio.santcou@gmail.com

PERSONAL STATEMENT

With 5+ years in software development, I'm driven to create innovative solutions. From academia to professional roles, I consistently deliver high-quality work. My journey includes service in the Minas Gerais Military Police, cultivating resilience, discipline, and dedication crucial for success in a software development career. Excelling in team environments, I seek challenging software engineering roles to contribute to end-to-end solutions and promote continuous growth.

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

TECHNICALS SKILLS

Programming languages

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

Databases

Mongo, MySQL and Postgres

Development Frameworks

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, Storage, GKE

WORK EXPERIENCE

Mensis

Software Engineer (2020 / Current)

- Developed REST APIs using Node.js, Express, NestJs, and Laravel
- Integrated APIs with MongoDB and MySQL databases
- Front-end development with Ionic, Angular, Laravel, Bootstrap, and React
- Designed and implemented a microservices architecture on Google Cloud Platform (GCP)
- Utilized Docker for containerization
- Deployed microservices on Cloud Run, Cloud Functions, and Cloud Pub/Sub
- Implemented microservices in Node.js, Express, NestJs, Laravel, and Python
- Configured and automated deployment triggers in GCP for CI/CD using GitHub Actions and Cloud Build
- Collaborated cross-functionally throughout the entire development lifecycle
- Used Jira for task management
- Designed microservices with both queue protocols and HTTP
- Created deployment manifests in Kubernetes for efficient scaling and management
- Developed observability strategies using Otel, Promtail, Prometheus, and Grafana
- Integrated RESTful APIs with a payment gateway for seamless transaction processing
- Utilized GitHub Actions to create CI/CD pipelines
- Applied unit and integration tests using Jest and PHPUnit

ACADEMIC PUBLICATIONS

IoTSafe: Attack Detection Based on Deep Neural Networks - 2023

<https://sol.sbc.org.br/index.php/courb/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 C1 (EF SET Assessment)

4Cadia

Senior Fullstack Developer (2022-03 / 2022-06)

- Worked on a horse racing betting system
- Responsible for developing, testing, and documenting new features in a REST API using NestJs
- Developed new front-end functionality using Bootstrap 5 and Angular
- Task management conducted through Jira and Figma

Capes - PUC Minas

Resarcher (2019 / 2020)

- Completed master's degree in computer science
- Integrated academic research with development in various projects
- Built REST APIs with Node.js / Express.js
- Worked with front-end and mobile frameworks, including Angular, Ionic, Android, and React Native
- Elaborated on dissertation involving the construction of a deep neural network
- Combined the neural network with a REST API to reinforce network security in IoT applications
- Used TensorFlow and Python for the deep neural network
- Employed Node.js and Express.js in the development process

Own Projects - Portfolio

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