

Caio Fernandes

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About

Summary

Software engineer with a Bachelor's degree in Computer Science and over ten years of experience in several technologies and programming languages.

Profile

Particularly interested in security, NP-problems, network, embedded systems, high-performance, web development, artificial intelligence and cryptography.

Objective

Work in areas related to software engineering, whether on the web, desktop, embedded, mobile or DevOps. IT (Information Technology) is always changing and that is why I'm also always looking forward for a new challenge to increase my knowledge.

Languages

Portuguese

Native

English

Fluent

French

Intermediary

Korean

Basic

Education

Bachelor of Computer Science - FEI (Fundação Educacional Inaciana)

2012/01 -> 2018/06

Broad view of many old and new concepts. Most notably, I focused myself in programming, algorithms and meta-heuristics.

ai, algorithms, c, c++, calculus, compilers, computer graphics, databases, html, java, network, operational systems, physics

Bachelor of Technology in Internet Systems - FIAP (Faculdade de Informática e Administração Paulista)

2008/01 -> 2009/12

Course focused on core web technologies and its foundations.

css, databases, html, java, javascript, network, php

Technical Skills

Databases

MongoDB, MySQL, PostgreSQL, SQL Server

Frameworks

AngularJS, Ember.js, ReactJS, Spring, Substrate, Symphony, Vue.js

Languages (Familiar)

Assembly (x84_64), C, C++, C#, F#, Golang, Kotlin, Lua, Python, Ruby, Scala, Swift

Languages (Proficient)

Java, JavaScript, NodeJS, PHP, Rust, TypeScript

Tools

Ansible, Apache HTTP, Apache Kafka, BIND, Docker, Docker Compose, Eclipse, GNU/Linux, gcloud, iptables, Kubernetes, LVM, LXC, Nginx, Rsyslog, SSH, Squid, TensorFlow, systemd, VSCode, Vim

Work Experience

Blockchain Developer (Remote), Zeitgeist

03/2021 -> 10/2021

- Substrate pallet development along side unit and integration tests.
- Deployment of parachain nodes for different relay chains.
- Research and implementation of liquidity provider incentives

Blockchain Developer (Remote), Valiu

10/2020 -> 01/2021

- Substrate blockchain development attending custom demands.
- Building libraries to interact with external nodes.
- Fundamental structures and services using the Rust programming language.

Independent Developer (Remote), Zondax

03/2020 -> 06/2020

- Design and construction of FFI endpoints to interact with several languages.
- Embedded system development using the Rust programming language.
- Maintenance of different projects related to Blockchain.

Senior Blockchain Architect (Remote), LNX Protocol

09/2019 -> 01/2020

- Creation of JSON-RPC endpoints and JS library to sign transactions.
- Fixing overall bugs and refactoring infrastructure into idiomatic Rust.
- Upstreaming and producing improvements to Substrate and Polkadot.

Java Developer (Intern), Neolog Consultoria e Sistemas, Brazil

02/2015 -> 05/2016

- Maintenance and development of Supply Chain applications.
- Spring Framework, Hibernate, Jackson, Jasper and Jersey.
- Java Swing and AngularJS.
- Build systems (Ant, Gradle and Maven).

Professional Certifications

Google Cloud Professional Cloud Architect, Google

2021/10 -> 2024/10

Deeper understand of Google Cloud technologies and how to best leverage them according to different situations

Linux Foundation Certified System Administrator (LFCS), Linux Foundation

2021/02 -> 2024/02

Hands-on management and administration of many applications that compose a "real life" Linux system.

Confluent Certified Developer for Apache Kafka (CCDAK), Confluent

2020/07 -> 2022/07

Kafka features, designing, monitoring and troubleshooting of custom applications.

Google Cloud Certified Associate Cloud Engineer, Google

2020/07 -> 2022/07

Deploy applications, monitor operations and manage enterprise cloud solutions.

Certified Blockchain Solution Architect (CBSA), Blockchain Training Alliance

2020/05 -> 2022/05

Different audiences needs and the pros and cons regarding the chosen technologies.

Professional Scrum Master I (PSM I), Scrum.org

2019/11 -> Current

Fundamental level of Scrum terminology and strategies to apply Scrum in Scrum teams.

Certified Blockchain Developer - Ethereum (CBDE), Blockchain Training Alliance

2019/07 -> 2021/07

Ethereum concepts alongside testing and deploying of smart contracts using Solidity.

Certified Kubernetes Administrator (CKA), Linux Foundation

2019/02 -> 2022/02

Knowledge and hands-on competency to create and administrate Kubernetes' clusters.

Java SE 6 Programmer Certified Professional (1Z0-851), Oracle

2015/06 -> Current

Solid knowledge of Java and its standard library.

Courses

A list with more than 40 completed certified courses is available at <https://c410-f3r.github.io/courses>.

Open Source

mop

Flexible and modular single or multi-objective solver for contiguous and discrete problems. It is possible to define custom NP-Problems and choose any supported solver combination. An online version compiled to WASM is available at c410-f3r.gitlab.io/mop-wasm-playground.

oapth

Version control tool for databases through SQL migrations. Supports embedded and CLI workflows for MS-SQL, MariaDB, MySQL, PostgreSQL and SQLite.

Miscellaneous

I did many open-source contributions to several projects and the whole portfolio is available on GitHub. Personally, my proudest contributions were made to the Rust compiler (Rustc) and its standard library specified in detail at github.com/rust-lang/rust/pulls?q=is%3Apr+author%3Ac410-f3r+is%3Aclosed