

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, be it web, desktop, embedded, mobile or DevOps. IT (Information Technology) is always changing and that is why I'm 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

Proficient: Java, JavaScript, NodeJS, PHP, Rust, TypeScript
Familiar: Assembly (x84_64), C, C++, C#, F#, Golang, Kotlin, Lua, Python, Ruby, Swift

Tools

Ansible, Apache Kafka, Docker, Docker Compose, Eclipse, GNU/Linux, Google Cloud Platform (GCP), Httpd, Kubernetes, Nginx, VSCode, Vi

Work Experience

<u>Independent Developer (Remote), Zondax, Switzerland</u>	03/2020 -> 06/2020
<ul style="list-style-type: none">- Design and construction of FFI endpoints to interact with high and low level languages.- Embedded system development using the Rust programming language.- Maintenance of different projects related to Blockchain.	
<u>Senior Blockchain Architect (Remote), LNX Protocol, South Korea</u>	09/2019 -> 01/2020
<ul style="list-style-type: none">- 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.	
<u>Java Developer (Intern), Neolog Consultoria e Sistemas, Brazil</u>	02/2015 -> 05/2016
<ul style="list-style-type: none">- 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

<u>Confluent Certified Developer for Apache Kafka (CCDAK), Confluent</u>	2022/07 -> 2022/07
Kafka features, architecture, designing, monitoring, troubleshooting and development of custom applications.	
<u>Google Cloud Certified Associate Cloud Engineer, Google</u>	2022/07 -> 2022/07
How to use command-line tools to perform many common platform-based tasks, deploys applications, monitors operations, and manages enterprise solutions.	
<u>Certified Blockchain Solution Architect (CBSA), Blockchain Training Alliance</u>	2020/05 -> 2022/05
Deeper understanding about what would be the best type of blockchain for different audiences, necessities and the pros and cons regarding the chose technologies.	
<u>Professional Scrum Master I (PSM I), Scrum.org</u>	2019/11 -> Current
Fundamental level of Scrum terminology and strategies to apply Scrum in Scrum teams.	
<u>Certified Blockchain Developer - Ethereum (CBDE), Blockchain Training Alliance</u>	2019/07 -> 2021/07
Concepts of the Ethereum blockchain with creation, testing, and deploying of smart contracts using Solidity.	
<u>Certified Kubernetes Administrator (CKA), Linux Foundation</u>	2019/02 -> 2022/02
Knowledge and competency to create and administrate Kubernetes' clusters.	
<u>Java SE 6 Programmer Certified Professional (1Z0-851), Oracle</u>	2015/06 -> Current
Solid knowledge of Java and its standard library.	

Noteworthy Courses

Linux Networking and Administration (LFS211), Linux Foundation

Broad view of many applications that compose a "real life" Linux system, as well as the appropriated configurations to effectively manage their life cycle.

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.github.io/mop-playground/.

ndsparse

Structures to store and retrieve N-dimensional sparse data. Currently supports a generalization of the Compressed Sparse Column (CSC), Compressed Sparse Row (CSR) and Coordinate (COO) formats for N-dimensions.

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), specified in detail at github.com/rust-lang/rust/pulls?q=is%3Apr+author%3Ac410-f3r+is%3Aclosed