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 always looking forward for a new challenge to increase my knowledge.

Languages

Portuguese	English	French	Korean
Native	Fluent	Intermediary	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

Independent Developer (Remote), Zondax, Switzerland 03/2020 -> 06/2020
- 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.

Senior Blockchain Architect (Remote), LNX Protocol, South Korea 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

Confluent Certified Developer for Apache Kafka (CCDAK), Confluent 2022/07 -> 2022/07
Kafka features, designing, monitoring and troubleshooting of custom applications.

Google Cloud Certified Associate Cloud Engineer, Google 2022/07 -> 2022/07
Deploy applications, monitor operations and manage enterprise 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.

Noteworthy Courses

Linux Networking and Administration (LFS211), Linux Foundation
Hands-on management of many applications that compose a "real life" Linux system.

IBM AI Engineering, Coursera

Theoretical and practical understanding of Machine and Deep Learning using PyTorch, Keras and Tensorflow.

Open Source

Toph

Experimental Substrate-based blockchain with smart contracts support intended for the Polkadot network. A deployed testnet is available on 35.192.47.173.

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.

ndsparse

Structures to store and retrieve N-dimensional sparse data. Currently supports a generalization of the CompressedSparse 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