

# Caio Fernandes

📍 Brazil

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🔗 [c410-f3r.github.io](https://c410-f3r.github.io)

🐙 [github.com/c410-f3r](https://github.com/c410-f3r)

📖 [stackoverflow.com/u/210304](https://stackoverflow.com/u/210304)

in [www.linkedin.com/in/caio-fer](https://www.linkedin.com/in/caio-fer)

## About

### Summary

Bachelor's degree, Web developer for 10 years, Java developer for 5 years and Rust developer for 3 years.

### Profile

Full-stack developer with a background of heterogeneous programming languages. Particularly interested in security, NP-problems, network, meta-heuristics and cryptography.

### Objective

Work in areas related to software engineering, be it web, desktop, embedded, mobile or DevOps. IT (Information Technology) is always changing so I'm looking forward for a new challenge to increase my knowledge.

## Languages

**Portuguese** (Native)

**English** (Advanced)

**French** (Intermediary)

## 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

### Languages

Proficient: Java, JavaScript, NodeJS, PHP, TypeScript, Rust

Familiar: Assembly (x84\_64), C, C++, C#, F#, Golang, Lua, Python, Ruby

### Databases

MySQL, MongoDB, PostgreSQL, SQL Server

### Miscellaneous

Ansible, Docker, Docker Compose, Eclipse, GNU/Linux, Httpd, Nginx, Kubernetes, VSCode, Vi, Windows

## Work Experience

### **Remote Senior Blockchain Architect, 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).

## Certifications

### **Linux Foundation Certified Engineer (LFCE), Linux Foundation**

2020/03 -> 2023/03

Advanced level of Linux administration and engineering skill with knowledgeable in the management and design of Linux systems.

### **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 -> 2022/07

Understanding of the Ethereum blockchain. Write, test, and deploy of smart contracts with Solidity.

### **Certified Kubernetes Administrator, Linux Foundation**

2019/02 -> 2022/02

Knowledge and competency to administrate Kubernetes' clusters.

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

2015/06 -> Current

Solid knowledge of Java and its standard library.

## Open-source

### **MOP - [github.com/c410-f3r/mop](https://github.com/c410-f3r/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](https://c410-f3r.gitlab.io/mop-wasm-playground).

### **ndsparse - [github.com/c410-f3r/ndsparse](https://github.com/c410-f3r/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](https://github.com/rust-lang/rust/pulls?q=is%3Apr+author%3Ac410-f3r+is%3Aclosed)