

# Luiz Guilherme Chagas Moraes JARDIM

## PERSONAL DATA

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| PLACE AND DATE OF BIRTH: | Rio de Janeiro, RJ   November 8th, 1989                                    |
| ADDRESS:                 | Rua Chãos Monte, 5, R/C, Lijó<br>Vila Nova de Gaia, Porto, Portugal        |
| PHONE:                   | +351 937 244 326   |
| EMAIL:                   | <a href="mailto:luizchagasjardim@gmail.com">luizchagasjardim@gmail.com</a> |

## PRESENTATION

Dear recruiters,

I've been working as a developer for over six years, programming mainly in **C++**, but also **Python**, **Rust** and **Java**, among others. I also have experience in other technologies, leadership roles and teaching. What I enjoy the most in programming is documenting, writing unit tests, refactoring legacy code and sharing knowledge. My extensive background in Mathematics, Science and Education sometimes comes in handy.

My goal in life is to learn and teach as much as possible. Software development is a field where there are many multi disciplinary projects with a lot different subjects and technologies to learn about. I also work on personal projects when I have the time.

For more details, please go to [luizchagasjardim.github.io](https://luizchagasjardim.github.io)

## WORK EXPERIENCE

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| JANUARY 2022<br>CURRENT      | Developer at VELOCIX<br>Developer in VxOA, Velocix Origin Application, which is responsible for ingesting, encrypting/decrypting and sending video assets using various streaming protocols.   |
| JANUARY 2020<br>JANUARY 2022 | Developer and Scrum Master at CRITICAL TECHWORKS<br>Development of software used for testing and quality assurance of BMW embedded software, such as a test framework written in C++ and a CI website with Java backend. After a year or so I also started acting as the Scrum Master for my team. We use technologies such as GTest, Git, SVN, Postgresql, Javascript, HTML, CSS, Docker, Saltstack and Openstack. I also take part in many company activities, mainly the Rust Community of Practice (a group co-created by me to study and talk about Rust, with weekly sessions) and the C++ daily (a 15 min meeting open to the whole company where we talk about anything related to C++). |
| JUNE 2019<br>DECEMBER 2019   | Consultant at NATIXIS through ALTRAN<br>I worked on a financial software called Summit. The software was written in C++, but there were also many scripts in Python. We used technologies such as GTest, XLDeploy, Git, Jenkins, Bitbucket and Jira. I was also one of the leaders of the Craftsman Academy, a weekly session that consisted of a short presentation followed by mob programming.  |
| MARCH 2016<br>MARCH 2019     | Systems analyst at BRAZILIAN NAVY RESEARCH INSTITUTE<br>Development of a ship's engine room simulator for the Mercantile Navy<br>Responsible for the control module (C++), maintaining the mathematical models (C++/Fortran) and communication between these components and the graphical interface (Java);<br>Also responsible for the test module (C++/Java), which uses a .json file to simulate user operations and verifies the outcomes given by the models. It also checked the validity of FXML, XML and the database (Postgres). These tests were run using Gitlab's CI.<br>Modifications on the database (pgSQL), graphical interfaces (JavaFx) and model analysis (XML, Simulink).    |
| BEFORE MARCH 2016            | I used to teach math<br>For more details, please go to <a href="https://luizchagasjardim.github.io">luizchagasjardim.github.io</a>   |

## EDUCATION

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- DECEMBER 2016    PhD IN MECHANICAL ENGINEERING  
**Universidade do Estado do Rio de Janeiro**, PPGEM  
Research Area: Transport Phenomena  
Thesis: “A hyperbolic model for saturated-unsaturated transition simulation in porous media”  
Advisor: Rogério Martins Saldanha da Gama, PhD.  
Co-Advisor: José Julio Pedrosa Filho, PhD.
- JULY 2014    MSC IN MECHANICAL ENGINEERING  
**Universidade do Estado do Rio de Janeiro**, PPGEM  
Research Area: Transport Phenomena  
Thesis: “A new description of mass transfer in porous media with saturated-unsaturated transition”  
Advisor: Rogério Martins Saldanha da Gama, PhD.  
Co-Advisor: José Julio Pedrosa Filho, PhD.
- December 2012    UNDERGRADUATE DEGREE IN MATHEMATICS  
**Universidade do Estado do Rio de Janeiro**, IME  
Thesis: “Cauchy Stress Tensor”  
Advisor: José Julio Pedrosa Filho, PhD.

## LANGUAGES

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- BRAZILIAN PORTUGUESE:    Native  
ENGLISH:    Advanced