



# Luís Mário Macedo Ribeiro

## Personal info

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## About me

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I'm Luís Mário, a software engineer based in Braga, Portugal. I am a University of Minho's student attending a masters degree on **Language Processing** and **Formal Methods**.

I am currently focused on developing my master's dissertation, entitled *Formalizing ROS2 security configuration with Alloy*, that will propose a technique to automatically verify system-wide properties related to the security configuration of ROS2-based applications.

Regarding internships, I'm willing to learn more and earn experience with the job market.

<i>Languages</i>	Portuguese (native), English (high level)
<i>Soft Skills</i>	Easily Adaptable, Fast Learner, Organized, Motivated, Dynamic
<i>Personal Interests</i>	Programming, Running and Sports, Photography, Exploring

## Education

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<b>University of Minho</b> <i>Integrated Masters in Software Engineering</i>	2017-2022 (in progress)
<b>Escola Secundária Caldas das Taipas</b> <i>High School - Sciences and Technologies</i>	2014-2017

## Extra curriculars

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<b>MyPhone</b> <i>Employee/Attendant</i>	Summer of 2017
<ul style="list-style-type: none"><li>MyPhone was a allocated store in Caldelas, Guimarães dedicated to the sell and repair of technological products.</li></ul>	

## RoboParty

2016

*Member of a Robot team.*

- RoboParty is a pedagogical event to teach how to build autonomous mobile robots in a simple and fun way, guided by qualified professionals.

## Major projects

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### raiML Utilities

February 2021 - July 2021

*The main goal was to verify the syntax of the railML, conferring a great attempt that verified missconfigurations with the help of Alloy model checking framework.*

**Technologies:** Alloy, Python, Java, JavaScript, Bash

### Software Calculi

February 2021 - July 2021

*Modelling and Analysis of cyber-physical systems with UPPAAL and Monads.*

**Technologies:** UPPAAL, CTL Temporal logic, Haskell

### School File Manager

October 2020 - January 2021

*Platform that provides a well-based support for storing and managing educational resources.*

**Technologies:** ExpressJS, Pug, JavaScript, MongoDB

### PorTOURgal

January 2020 - July 2020

*Mobile Application, which allows users to easily locate the best tourism options in each district across Portugal.*

**Technologies:** Xamarim, C, MongoDB

### CocktailDB

February 2021 - July 2021

*Web application that provides useful and organized information about Cocktails, based on a well-formed cocktails ontology database.*

**Technologies:** Python, Protege, ExpressJS, JavaScript, MongoDB, GraphDB

### GUIDEme

October 2020 - February 2021

*Mobile application that enables users to book experiences within a location context, orientated by a self-promoting tourist guide.*

**Technologies:** Python, Django, PostgreSQL, Docker, Heroku, React

## Technical skills

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<i>Programming Languages</i>	Bash; C; Haskell; Java; Python; JavaScript
<i>Markup Languages</i>	LaTeX; Markdown; Org-mode
<i>DataBases</i>	SQL (mysql); NoSQL (mainly MongoDB)
<i>Software Tools</i>	Git; Vim; VSCode; ExpressJS; GraphDB; Protege; antlr4 Electrum; mCRL2; UPPAAL; Why3
<i>Relevant Languages</i>	<i>Temporal Logic:</i> Alloy, Modal Logic, CTL and LTL; Lex/Yacc