



# 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 currently attending a masters degree on **Language Processing** and **Formal Methods**.

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

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|---------------------------|---|
| <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><br><i>Integrated Masters in Software Engineering</i> | 2017-2022 (in progress) |
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| <b>Escola Secundária Caldas das Taipas</b><br><i>High School - Sciences and Technologies</i> | 2014-2017 |
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## Extra curriculars

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|---|----------------|
| <b>MyPhone</b><br><i>Employee/Attendant</i> | Summer of 2017 |
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- MyPhone was a allocated store in Caldelas, Guimarães dedicated to the sell and repair of technological products.

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| <b>RoboParty</b><br><i>Member of a Robot team.</i> | 2016 |
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- 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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### *Programming Languages*

Bash; C; Haskell; Java; Python; JavaScript

### *Markup Languages*

LaTeX; Markdown; Org-mode

### *DataBases*

SQL (mysql); NoSQL (mainly MongoDB)

### *Software Tools*

Git; Vim; VSCode; ExpressJS; GraphDB; Protege; antlr4  
Electrum; mCRL2; UPPAAL; Why3

### *Relevant Languages*

*Temporal Logic:* Alloy, Modal Logic, CTL and LTL; Lex/Yacc