Luís Ribeiro

S o f t w a r e   E n g i n e e r

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ABOUT ME

I am a young adult that is driven by other life and culture experiences.

I have a Masters Degree in Software Engineering, and I am mostly enthusiastic with Functional Programming and the appliance of Formal Methods in computing.

I have been introduced to Category Theory and Combinatory Logic, which allow me to understand theoretical type foundations.

PERSONALITY

- Enthusiastic and Adaptable.
- Honest and Responsible.

WORK EXPERIENCE

Internship @HydraIT

February 2022 - May 2022
- Microsoft's ERP Business Central.
- Consulting and Developing.

Skills: ERP, C/AL

Researcher @INESCTEC

March 2022 - August 2022
- Study of hyperproperties in model-checking.
- Correctness over distributed systems with security.

Skills: Alloy, TLA+, Researching

Junior Software Architect @Bosch

February 2023 - now
- Understanding requirements on complex systems.
- Configuration and variant management.
- Software developing and modelling.

Skills: Rhapsody, pure::variants, TLA+, C

HOBBIES

In my spare time, I usually try to keep both my mind and body occupied.

I enjoy reading, mostly about Philosophy and Computer Science. I also like exercising (sports and running) and taking walks outside, usually around the nearest park.

Most recently, I've interested in photography with film cameras.

EDUCATION HISTORY

Software Engineering

@Universidade do Minho
2017-2022
(MSc Degree in Formal Methods and Language Processing)

Computational Effects

- Algorithmic structures and Monads.
- Lambda calculus and reasoning.

Skills: Haskell, C

Language Processing

- Lexical analysers and Regular Expressions.
- Parsing of information and REST APIs.

Skills: JavaScript, Python, Lex/Yacc, Antlr4

Formal Methods

- Formal modelling and verification.
- Design by Calculation: Category Theory foundations.

Skills: Alloy, TLA+, Z3, Coq, Why3, Haskell

Thesis

- Study of Hyperproperties in ROS-based systems.
- Security and Privacy as properties.

Skills: Alloy, Python, Distributed Systems, ROS, Security