Diogo Filipe Paz **Barros**

Software Engineer

Basic Information

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Spoken Languages

About Me

Eternally curious and passionate about how things work. Previously a wannabe physicist until I started programming in a graphic calculator, after which I fell down the rabbit hole called software engineering.

Studied at Faculdade de Ciências da Universidade de Lisboa where I acquired my Bachelor's and Master's degrees. During my later years at university, I indulged in academic research under the LASIGE unit, specifically the Reliable Software Systems area, developing a new programming language.

Fresh out of university and looking for a challenging project to build my skills further, my main interests are programming languages, parallel and concurrent programming, distributed systems and creating software tools to help streamline processes wherever needed.

Portuguese • English •

Skills

- Java ◆
- Python •
- ••••
- Haskell ◆
 - Rust ◆

Education

- **2014/15 2016/17**: Sciences and Technologies Course, Escola Secundária Braamcamp Freire, average of 17.
- **2017/18 2019/20**: Bachelor's degree in Informatics Engineering, Faculdade de Ciências da Universidade de Lisboa, average of 16. Some subjects to note:
 - Programming Principles 19
 - Object Centered Development 19
 - Computation Theory 16

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- **2020/21 –2022/23:** Master's in Software Engineering, Faculdade Ciências da Universidade de Lisboa, average of 17. Some subjects to note:
 - o Parallel and Concurrent Programming 18
 - o Compilation Techniques 19
 - o Domain Languages 19
- **03/2023:** Presented my MSc thesis with a final grade of 19.

Experience

12/2019 - 01/2024: Member of LASIGE

- Working in coordination with professors Vasco Vasconcelos and Andreia Mordido in developing a new functional programming language, FreeST, which aims to verify and guarantee that parties follow a specified protocol. This work includes: developing the compiler, tests, and example programs that exercise the language.
- 07/2020 10/2020: Fellow at Bee2Waste Summer School, promoted by NOVA Information Management School. In this project ideas were developed by combining blockchain solutions, smart-contracts and waste management in order to modify behaviors and generate value in all of the waste management chain.
 Final grade: 17.
- **01/2021:** Student volunteer at the programming languages conference, POPL.
- **04/2021 07/2021:** Research grant (BI) given by FCiências.ID within the scope of the SafeSessions project at LASIGE.
- **10/2021 01/2022:** *Programming 1* monitor at Faculdade de Ciências da Universidade de Lisboa. Lectured basic programming skills in Python to undergraduate students.
- 11/2021 02/2022: Research grant for Master's students (BI-EM) at LASIGE.
- 09/2022: Presenter at INForum Informatics Symposium 2022
- **11/2022 11/2023:** Research grant (BI) given by FCiências.ID within the scope of the SafeSessions project at LASIGE.
- 04/2023 07/2023: Invited Assistant and responsible for *Domain Languages* at Faculdade de Ciências da Universidade de Lisboa. Lectured MSc students on how to design and implement domain-specific programming languages using Java and Xtext.