Diogo Filipe Paz **Barros**

Software Engineer

Personal Information

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Spoken Languages

Portuguese •

English •

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Skills

Java •

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Python •

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Haskell •

SQL (MySQL) •

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Rust •

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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.

Education

About Me

- 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

Other Skills

- Java Spring
 - JUnit
 - Git •
 - Maven •
 - Docker •

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Software Engineer

- **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, smartcontracts 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.