# **Diogo** Filipe Paz **Barros**

Software Engineer

### **Personal Information**

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which I fell down the rabbit hole called software engineering.

Eternally curious and passionate about how things work. Previously a

Studied at Faculdade de Ciências da Universidade de Lisboa where I

Fresh out of university and looking for a challenging project to build

my skills further, my main interests are programming languages, parallel and

wannabe physicist until I started programming in a graphic calculator, after

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



## **Spoken Languages**

Portuguese •

English •

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Eligiisii ▼

### **Skills**

Java 🔷

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Python •

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Haskell •

SQL (MySQL) •

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Rust •

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# concurrent programming, distributed systems and creating software tools to help streamline processes wherever needed.

programming language.

**About Me** 

#### **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:
  - o Programming Principles 19
  - Object Centered Development 19
  - Computation Theory 16

#### **Other Skills**

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

## **Diogo** Filipe Paz **Barros**

#### 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, 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.