AFONSO PINTO CARDOSO RAFAEL

afonsorafael@sapo.pt / website

EDUCATION

Masters in Computer Science, Faculty of Sciences of the University of Lisbon

- Relevant Coursework: Compilation Techniques, Domain Specific Languages, Quantum Computing.

B.S. in Geospatial Engineering, Faculty of Sciences of the University of Lisbon

2016 - 2020

Drumming, International Drum Academy

2016 - 2020

High School, Colégio de São Tomas

2004 - 2016

EXPERIENCE

Software Developer (Freelancing)

April 2023 - May 2023

Bynd

Lisbon, PT

- Build a web crawler in python to collect data on companies to be displayed on dashboard.
- Using selenium as a dependency to allow interaction between the crawler and the web page.

Researcher (Intern)

IMDEA Software

September 2022 - March 2023

Madrid, SP

- Build relational benchmarks for Liquid Haskell, a compiler plugin that extends Haskell's type system with
- Wrote a paper section describing the benchmarks.
- Contributed with solving a bug in liquid-fixpoint (Pull Request)

Research Fellowship

refinement types.

January 2022 - July 2022

LASIGE

Lisbon, PT

- Freest is a functional programming language that uses session types for safer communication.
- Developed a compiler for the Freest language, targeting JavaScript (Built with Haskell).
- Built a test suite for the compiler.
- Best Poster 1st, LASIGE Workshop'22.

Summer with science (Research Fellowship)

August 2021

LASIGE

Lisbon, PT

- Built programs with Freest that later got into the testing suite.
- Found bugs and reporting them during development.

Software Developer (Intern)

2019 - 2020

Think Future

Lisbon, PT

• Built a system to manage aerial information for control of drone flight (Python).

Data Science (Intern)

August 2019 - September 2019

ITC Faculty of Geo-information Science and Earth Observation

Ensched, NL

- Wrote data processing code using Dask, an open-source Python library for parallel computing.
- Lectured practical classes on the Institute.
- Processed geographical information for decision making.

SKILLS

Programming languages Technical Skills Soft Skills Haskell, Typescript, Python, C, Lisp Compiler design and implementation, Web Development, Data processing Enjoy speaking with people, Enjoy presentations and public speaking

EXTRA-CURRICULAR ACTIVITIES

Discord Admin/Event Manager DevPT

2020 - Present Lisbon, PT

- Participated in the devPT talks as Manager.
- Participated in the devPT as Speaker (Eu uso Emacs, roast me.)
- Moderate and Help make decisions on the Discord platform.
- Help manage social media.

MUSIC

 Drummer
 2019 - 2023

 AZMA
 Lisbon, PT

- Play drums and help compose the songs.
- Help manage the social accounts and project contacts.
- Participated on the recording of songs like: Akadom

Guitarist 2022 - 2023 Split Objects Lisbon, PT

- Support guitarist for the band.
- Help with gigs.

 Drummer
 2017 - 2019

 PodPop
 Lisbon, PT

- Played drums and helped compose music.
- Helped record the video clips.
- Participated on the recording of songs like: Is It Love Or Sacrifice, BlackOut, Spoon Of The Gods.

Guitarist
Why Knot
Lisbon, PT

- Played guitar and helped compose music.
- Participated on the recording of songs like: Nothing Concrete.