

AFONSO PINTO CARDOSO RAFAEL

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EDUCATION

Masters in Computer Science, Faculty of Sciences of the University of Lisbon (dropout)
- 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

SKILLS

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

EXPERIENCE

Web Developer Digital MZN	July 2023 - Now <i>Lisbon, PT</i>
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- Help with the development of the arms website (React Native & Typescript).
- Help maintain python environments of other members of the company.

Software Developer (Freelancing) Bynd	April 2023 - May 2023 <i>Lisbon, PT</i>
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- 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 <i>Madrid, SP</i>
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- Build relational benchmarks for Liquid Haskell, a compiler plugin that extends Haskell's type system with refinement types.
- Wrote a paper section describing the benchmarks.
- Contributed with solving a bug in liquid-fixpoint ([Pull Request](#))

Research Fellowship LASIGE	January 2022 - July 2022 <i>Lisbon, PT</i>
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- [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) LASIGE	August 2021 <i>Lisbon, PT</i>
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- Built programs with Freest that later got into the testing suite.
- Found bugs and reporting them during development.

Software Developer (Intern) Think Future	2019 - 2020 <i>Lisbon, PT</i>
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- Built a system to manage aerial information for control of drone flight (Python).

Data Science (Intern)

ITC Faculty of Geo-information Science and Earth Observation

August 2019 - September 2019

Enschede, 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.

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

AZMA

2019 - 2023

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

Split Objects

2022 - 2023

Lisbon, PT

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

Drummer

PodPop

2017 - 2019

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

2016

Lisbon, PT

- Played guitar and helped compose music.
- Participated on the recording of songs like: [Nothing Concrete](#).