Rodrigo Mesquita

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EDUCATION

MSc. Computer Science and Engineering

NOVA School of Science and Technology

Current average grade: 15.90

2018 - Today

Lisboa, Portugal

Research

Synthesis Of Linear Functional Programs

Mar. 2021 - Jul. 2021

Lisboa, Portugal

NOVA School of Science and Technology

I had the opportunity to be advised by Prof. Dr. Bernardo Toninho in writing this work, which was given the highest grade

Work Experience

Glasgow Haskell Compiler

Feb. 2022 - Today

Online, GHC

Active contributor

- Making the Haskell AST GHC-independent following Trees that Grow by Simon P.J. and Shayan Najd.
- Running experiments on the internal representation of fast strings.

Universität Koblenz

Jun. 2022 - Aug. 2022

Research assistant, guest lecturer

Koblenz, Germany

- Writing two modules to extend the course Introduction to Functional Programming.
- Giving a guest lecture on one of the added modules.

Connektor

Feb. 2022 - Mar. 2022

Lisboa, Portugal

Software developer (half-time)

• Development of app to manage PATS (pedidos de assistência técnica)

Nov. 2022 - Feb. 2022

Lisboa, Portugal

Software developer (internship)

- Created a dashboards system for Efficio Consulting using TailwindCSS and Vue.js
- Wrote a Haskell interface to the CoB platform

Biofix

Sep. 2020 - May 2021

Lisboa, Portugal

Software developer (half-time)

- Development of a web-app using Vue.js.
- Automated business-specific features using the data-processing pipeline in Groovy.

Relevant Projects

C compiler which compiles C to LLVM; written in C	2022
Operating system with a minimal libk, flat memory model, and paging (WIP)	2021
Programmer calculator – a TUI calculator to work very close to the bits; written in C	2021
Gameboy emulator which runs Tetris and passes the initial standard CPU and MBC1 support tests; written in C	2021
CHIP-8 emulator that runs on a gameboy, written directly in gameboy assembly (RGBASM)	2021

Relevant Events

Sessão de boas-vindas – Sessão para alunos de 1° ano aos quais apresentei a vertente de investigação de APDC	2021
Feira Virtual @ DI - Sessão de apresentação e esclarecimento a potenciais alunos do curso de Informática	2021

TECHNICAL SKILLS

Haskell, C, Vim, Git, Java, HTML/CSS/JS, Portuguese, English FLUENT IN Rust, Go, Assembly, Python, Bash, German, Spanish Conversational in Swift, LLVM, LATEX, Erlang, Scala, Japanese, Russian Know some