

RODRIGO EMÍDIO

☎ +351929037362 ✉ rodrigo.castro.emidio@gmail.com 🔗 linkedin.com/in/rodrigo-emidio 🌐 github.com/rodrigoemidiodev

About Me

My name is Rodrigo Emídio, I am a student currently doing the Master in Computer Science. My main fields of interest are Data Science, and Software and Web Development. In my free time, I enjoy watching TV shows, hanging out with friends, playing video games and doing sports.

Education

Faculty of Sciences of the University of Porto

Sep 2020 – June 2024

Bachelor of Computer Science

Porto, Portugal

Professional Experience

INESC TEC

Oct 2022 – Jan 2023

Front-End Developer Intern

Porto, Portugal

- Developed the front-end of a cross-platform mobile application using the Ionic framework.
- Used the INESC TEC API to make HTTP requests with user inputted data.
- Used Git to organize modifications.
- Utilized Capacitor to deploy and test in real time the application on Android.

Critical Manufacturing

Nov 2023 – Nov 2024

Software Engineer

Maia, Portugal

- Maintenance of applications mostly in C, C++, C Sharp and Python for semiconductor industry.
- Use of Git to organize modifications and Azure DevOps to manage software projects within the team.
- Use of Docker to containerize applications.

Volunteer Experience

NUCC-FCUP

Oct 2021 – October 2024

Pedagogical Department Coordinator / Treasurer

Faculty of Sciences of the University of Porto

- Organized formal activities undertaken by the student nucleus such as workshops and lectures, which helped me develop leadership and work management skills.
- Managed the nucleus' accounting, which helped me increase my knowledge in the financial field and hone my leadership capacity.

NUCC-FCUP

October 2024 – Present

President of the General Assembly Board

Faculty of Sciences of the University of Porto

- Managed the nucleus' general assembly meetings, which boosted my leadership capacity.

University Projects

Parliament Database | *SQL, Python*

Nov 2021 – Dec 2021

- Modeled a database to store data related to a fictitious version of the Portuguese Parliament.
- Utilized Flask and PyMySQL libraries to build a web app that interfaces with the developed SQL database.

Pascal-0 Compiler | *Haskell*

Nov 2022 – Dec 2022

- Developed a compiler for a subset of Pascal, that reads source code and generates the corresponding MIPS assembly code.
- Used Alex to generate the Lexer and Happy to generate the Parser.

The Nim Game | *HTML/CSS, JavaScript*

Oct 2022 – Dec 2022

- Developed a web version of the Nim Game.
- Front-end implementation of a single-page application.
- Implemented a Node server and configured HTTP requests to allow players from different machines play together.

Classification Algorithms Performance | *Python*

Mar 2023 – May 2023

- Measured the performance impact of a classification algorithm by changing its preference criterion.

Concurrent Sets | *Java*

May 2023 – Jun 2023

- Concurrent implementation of sets based on hash sets.

- Used concurrency techniques such as synchronized blocks, atomic operations, and various types of locks to assure mutual exclusion and guarantee smooth read-write operations.
- Used STM to simplify concurrency operations.

Machine Learning Pipeline | *Python*

May 2024 – Jun 2024

- Developed a machine learning pipeline to predict the length of stay from a patient on ICU, using MIMIC-III database.
- Used Google Cloud features to manage and process the data.

Skills

Technologies: C, C++, C Sharp, Excel, Git, HTML/CSS, Haskell, Java, JavaScript, Linux, L^AT_EX, Markdown, Python, React, SQL, Azure DevOps, Docker

Communication: Portuguese (Native), English (B2), Spanish (B1)