Fábio Morais

Software Engineer

📍 Porto, Portugal ✉ fabio-morais@outlook.pt ↖ www.fabio-morais.github.io
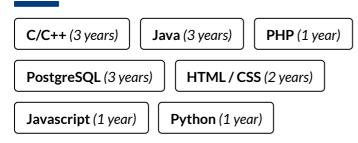
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🪪 Profile

I am a self-taught, creative and agile person, always trying to learn new things and ready for new challenges. Passionate about technology and programming, I strive to create new things that have a positive impact on the world.

🧠 Software Skills

C/C++ *(3 years)*	**Java** *(3 years)*	**PHP** *(1 year)*

PostgreSQL *(3 years)*	**HTML / CSS** *(2 years)*

Javascript *(1 year)*	**Python** *(1 year)*

🧠 Tools / Technologies

Object-Oriented Programming | Bootrasp

UML | Git | SCRUM | Jira | Junit

JQuery

🔎 Languages

English *(Professional working proficiency)*

🎓 Education

2017 – 2021	**FEUP,** *Master in Electrical and Computers Engineering* ⬈

💼 Professional Experience

Sep 2021 – present
Porto

Software Engineer, *Critical TechWorks* ⬈

Feb 2021 – Jul 2021
Porto

Msc Thesis - Deep Learning and Computer Vision, *Ocean Infinity* ⬈
- Implementation of a model that segments a set of elements of interest in videos of underwater structures and fuses with 3D models of these same objects using C++ and Python with Deep Learning Frameworks;

Feb 2021 – Jul 2021
Porto

Guest Assistant - Programming 2, *FEUP* ⬈
- Assist students by helping them in pratical classes about data structures and algorithms using C.

Jul 2019 – Jul 2019
Coimbra

Summer Internship, *Critical Software*
- Worked with a team of four to develop an IoT device that displays the weather forecast and controls the lights and fan;
- Implemented all the code for the Arduino microcontroller with C++ using the information provided from APIs and the mobile application;

📜 Projects

Sep 2020 – Feb 2021

Online Courses Website, *Academic project* ⬈
Technologies Used: HTML/CSS with Bootstrap , JavaScript (Jquery); PHP and PostgreSQL
Final mark: 19 (0-20)
- Developed a web app with login system for online courses with information about the courses and the users stored in a DataBase;
- Implemented a real-time chat and a shop using Ajax

Aug 2020 – Sep 2020   **Instagram Bot,** *Personal project*
Technologies Used: Python with Selenium
- Instagram Bot that extracts data using web scraping with python;
- Automatically comment on publications, follow a list of persons and like publications;

Feb 2020 – Jun 2020   **MES - Manufacturing Execution System**
Technologies used: Java with swing, PostgreSQL
Final mark: 19 (0-20)
- Designed an MES using algorithms such as Dijkstra's to optimize the production plant;
- Implemented as multithreading application with communication between de ERP and the shop floor;

Sep 2019 – Feb 2020   **Warehouse Manager,** *Academic project*
Technologies Used: Java with swing, PostgreSQL, HTML/CSS/PHP and JavaScript
Final mark: 20 (0-20)
- Led a team of five in a SCRUM methodology;
- Developed a system with login system in Java where the user can view statistics in graphs, export data to .csv, add/update/remove the information;
- Executed planning and specification tasks, such as the development of frontend mockups, or the design of the database model.

Jul 2019 – Aug 2019   **Tic Tac Toe,** *Personal project*
Technologies Used: Java with JavaFX
- Designed a Tic Tac Toe with Java using the Minimax algorithm to implemented Artificial Intelligence that plays a perfect game.

All of these projects are available on my Github Repository ⬀ *or on my personal website* ⬀ *, which includes videos for each project.*

🗔 Courses

2020   **Machine Learning,** *Coursera*

2019   **The Complete Python Course | Learn Python by Doing,** *Udemy*

2018   **Java Programming Masterclass for Software Developers,** *Udemy*