

Pedro Amaro

Experienced, generalist, and highly ambitious informatics and computing engineer. Excellent technical competencies, with a recent focus on **Web Development** and **Software Architecture**, with knowledge in **Artificial Intelligence**, **Computer Vision**, and **Simulation**. Strong interpersonal skills as well as being self-motivated, which enable effective and independent work within a team. Passionate about solving complex problems to cultivate my abilities, while benefiting the world.

EXPERIENCE

CERN - European Organization for Nuclear Research

Full Stack Engineer - Asset Maintenance Management

2020- 2022

The team is responsible for managing the 100,000s of maintenance work orders performed on millions of equipment yearly.

Reduced the application size of all the React applications by several MB, improving loading speeds on slow connections and low-end devices.

Lead the development, including architectural framework, of a complex JSF to React port of an application, taking only one month to complete.

Mentored junior developers, guiding them into being able to autonomously implement challenging sub-parts of applications.

With Docker, packaged [EAM Light](#) into an easy-to-setup open-source application, which many other organizations now use.

Took charge of the development side of a contract management framework for external contractors, currently being applied to 4 sections at CERN.

Responsible for the Prometheus/Grafana monitoring infrastructure, in close coordination with the IT department at CERN for hosting.

EDUCATION

Faculty of Engineering of the University of Porto

Integrated Masters in Informatics and Computing Engineering

Bsc (3 years) + MSc (2 years)

2014 - 2019

PUBLICATIONS AND PROJECTS

Multi-Robot Learning of High-Level Skills in RoboCup

2019

Master's thesis with an emphasis on multi-robot collaboration.

Google Summer of Code / OpenStreetMap — [3dmr.eu](#)

2017 - 2020

Built a repository of 3D models to improve rendering of 3D maps.

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Portuguese

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AWARDS

2019 | Google Hash Code

Ranked 543rd out of 6671

participants in the qualification round.

2018 | Jscrambler's Ninja

Challenge Ranked 2nd out of

650 participants.

2014 | International Olympiad

in Informatics Participant.

2014 | National Olympiad in

Informatics Ranked 2nd out of

the 28 participants in the

finals.

LANGUAGES

Portuguese (Native), English

(C2 Proficiency), French (A1),

Spanish (A1)

SKILLS

Use regularly: JavaScript,

React, Redux, HTML5, CSS3,

Java, Java EE, Maven, PL/SQL

Prometheus, Grafana, Docker,

Git, Infor EAM

Have used: Python, Numpy,

Scikit, Pandas, Matplotlib, C++,

C, PostgreSQL, Keras, OpenCV,

Qt, C#, Lua (C library), Prolog,

GLSL, LaTeX, Redis, NGINX