João Fernandes

Nationality: Portuguese

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ABOUT ME

Master in Software Engineering. Web Developer (Full Stack).

WORK EXPERIENCE

Software Developer
Instituto Superior de Engenharia do Porto [01/02/2020 – 31/10/2020]

City: Porto
Country: Portugal

Reengineering of a previously developed software in 2018, with the help of frameworks such as Angular, Node.js and MongoDB. The goal was to achieve a better and more robust Learning Management System (LMS), allowing the possibility to integrate new concepts and new functionalities that could eliminate limitations from previous systems and met the new objectives proposed.

This experience was acquired during the master's thesis, done at an internal level, in the same institution (Instituto Superior de Engenharia do Porto).

Technologies:

- Angular;
- Node.js;
- MongoDB;
- Express.js;
- Nginx;
- Socket.IO;
- REST.

Software Developer
Continental Mabor- Indústria de Pneus, Sa [01/07/2018 – 31/08/2018]

City: Lousado
Country: Portugal

Development of intranet web applications using:

- PHP;
- JavaScript;
- HTML;
- CSS;
- MySQL.

Software Developer
Instituto Superior de Engenharia do Porto [01/01/2018 – 01/09/2018]

City: Porto
Country: Portugal

Development of a web platform that promoted the critical thinking of students attending Engineering courses, through the availability of numerous and diverse content and activities, such as virtual classes and games, with frameworks such as Angular, Node.js and MongoDB.

This experience was acquired during the conclusion of the Computer Engineering degree, done at an internal level, in the same institution (Instituto Superior de Engenharia do Porto).

Technologies:

- Angular;
- HTML;
- CSS;
- MongoDB;
- Express.js;
- Nginx;
- Socket.IO;
- REST.

EDUCATION AND TRAINING

Computer Engineering Master in Software Engineering
Instituto Superior de Engenharia do Porto [01/09/2018 – 12/11/2020]

Address: R. Dr. António Bernardino de Almeida 431, 4200-072 Porto (Portugal)
https://www.isep.ipp.pt/

Computer Engineering Degree
Instituto Superior de Engenharia do Porto [01/09/2015 – 01/09/2018]

Address: R. Dr. António Bernardino de Almeida 431, 4200-072 Porto (Portugal)
https://www.isep.ipp.pt/

LANGUAGE SKILLS

Mother tongue(s):

Portuguese

Other language(s):

English	**Spanish**
LISTENING C1 **READING** C1 **WRITING** C1	**LISTENING** B1 **READING** B1 **WRITING** A2
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

DIGITAL SKILLS

Programming Languages
C, C++, C# / JavaScript / TypeScript / PHP / HTML / CSS / HTML5

Frameworks
Angular / Socket.IO / AngularJS / Node.js + Express.js / Node.js / REST / Bootstrap

Databases
MongoDB / MySQL / SQL/SQL Server

Tools
Visual Studio Code / Visual Studio Code, Netbeans, Eclipse / Postman / Docker / Microsoft/Microsoft Office / Sourcetree / Eclipse / Git / Android Studio / Github

Operating Systems
Windows 7; Windows 8, Windows 10; / Linux

Architectural Principles
RESTful Web Services / MVC

Software Development Methodologies
SCRUM / Agile Methodology / Agile (Scrum)

Data Formats
JSON / XML

Others
Continous Integration / Continous Delivery / UML / Nginx

CONFERENCES AND SEMINARS

Compilers Construction: Programming Languages, Challenges and Current Paradigms by Dr. Jürgen Vollmer

[Instituto Superior de Engenharia do Porto, 27/04/2017 – 27/04/2017]

PROJECTS

eGYM - Engineers Gym

[01/02/2020 – 31/10/2020]

Reengineering of the previous "eGYM – Engineers Gym" developed in 2018, aiming to achieve a better and more robust Learning Management System (LMS), allowing the possibility to integrate new concepts and new functionalities that could eliminate limitations from previous systems and met the new objectives proposed.

Contrary to the previous application developed in 2018, all services and micro-services were deployed on a local Linux client, provided by Instituto Superior de Engenharia do Porto, using the institution DNS.

Tire Communication Portal

[01/07/2018 – 31/08/2018]

Project with emphasis in web development where employees from different stations could communicate tire information and protocols, between each other, using Continental's intranet.

Data handling, such as employee login credentials and tire information, was achieved using LDAP and Microsoft SQL Server, respectively.

eGYM - Engineers Gym

[01/01/2018 – 01/09/2018]

"eGYM – Engineers Gym" project aimed to develop a web platform that promoted the critical thinking of students attending Engineering courses, through the availability of numerous and diverse content and activities, such as virtual classes and games.

The architecture designed and implementation was based on the renown MVC pattern. For this specific project two main applications were developed, known as Front Office and Back Office. The first one was the application where students could consume the various content and activities and the latter was the application where the teachers and administrators could manage both students and content available. To support those two applications, multiple micro services APIs were developed to handle all the communication between clients and servers, using REST and HTTPs. Both applications and services were deployed on the cloud, using Microsoft Azure.