

Full Stack Developer

Professional Skills Document

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EXPERIENCE SUMMARY

Although I started my career in 2003 as a Researcher (Biology) I've been always involved with information technologies and engineering, mainly in the development of computer controlled devices for scientific research and had produced several scientific papers⁽¹⁾ and one patent⁽²⁾.

Gradually I've started to change my career focus with training courses on programming and later with a Master on Bioinformatics that gave all the knowledge to embrace more complex projects, namely in Data Mining, Big Data, Pattern Extraction, Machine Learning, Data Prediction, etc...

In 2008, started to develop, from the scratch, a web based platform developed for research and laboratory management. It started with few features and now is the major tool in the organization at all levels. During this web platform development, several technologies were gradually adopted, according to the need, which gave me a great wide experience on implementation and integration of several technologies, including creating new interfaces (unavailable integrations). Following this project, I've also implemented similar platform (using the same base) on other research groups.

Also, I've build, another platform (for an analysis laboratory) based on this platform but built using Laravel as the base framework.

Currently I'm working on the private sector as a senior full stack web developer and project manager on the development of internal web-based tools using mainly PHP(Laravel)/HTML5/JS/MySQL stack.

(1) <https://orcid.org/0000-0002-1653-1725>

(2) <https://patents.google.com/patent/US20100273253>

TECHNICAL ABILITIES

1- Beginner Academic , training only | **2 - Intermediate** Level 1 + small projects or internships **3- Advanced** Level 1/2 + project experience | **4 – Professional** Level 1/2/3 + wide professional experience | **5 - Expert**

PROGRAMMING		
LANGUAGE	LEVEL	VERSIONS
Java	3	J2SE; J2EE 6, 7,8
.Net	3	3.5, 4
JavaScript	4	
PHP	5	5,7
Perl	4	
Python	3	2
Android/Kotlin	2	
C/C++	2	Linux
HTML	5	5
CSS	4	2,3
FRAMEWORKS		
Laravel	5	5.x
jQuery UI	4	1.11.x
jQuery Mobile	4	1.4.x
Symfony	3	3.2
jQuery	4	2.x, 3.x
Angular JS	2	1.6.x
Node JS	2	6.x
DATABASES		
SQL Server	2	2008,2016
Oracle	2	9g
MySQL	5	5.7
PostgreSQL	4	1.4.0
TOOLS		
Visual Studio	3	2015
Eclipse	4	All
Sublime Text	5	All
Office	5	All
OPERATIVE SYSTEMS		
Windows	5	All
Linux	3	Debian, Ubuntu, Raspbian
MacOS	5	All
OTHERS		
R	4	All
Matlab	2	All

PROJECTS

Internal Production Management System – Conf. – Developer

Nov 2018 to July 2019

Context

Project with emphasis in web development using PHP (Laravel), several Javascript Frameworks and MySQL DB for internal production line management. The main goal of this application is to follow the production process of each product, with several checkpoints, documentation and validation, outputting statistical data for tracking and production performance enhancement and machine data communication, collection and logging through encrypted

Main Activities

Analysis and architecture planning
Web Development (PHP (Laravel), CSS, Javascript, MySQL).
Machine communications API
Testing and production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

Business tool – Conf. – Developer

September 2018 to Nov 2018

Context

Project with emphasis in web development using PHP(Laravel), several Javascript Frameworks and MySQL DB as a commercial business interface between company and clients to automatically register all clients activity and present a monthly cost/revenue. The main goal of this application is to communicate with the machines installed on each client, receive their jobs log and manage this information in terms of stocks supply, finances, etc...

Main Activities

Analysis and architecture planning
Web Development (PHP (Laravel), CSS, Javascript, MySQL)
Testing and production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

Internal Projects Management System – Conf. – Developer

January 2018 to July 2018

Context

Project with emphasis in web development using PHP, several Javascript Frameworks and MySQL DB for internal projects management tool with SCRUM board, GANTT, tasks and tickets system. The main goal of this application is to manage the request, creation and management of all internal projects according to the Quality Management System of the company.

Main Activities

Analysis and architecture planning
Web Development (PHP (Laravel), CSS, Javascript, MySQL)
Testing, production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

Analysis Laboratory Management System – Conf. – Developer

June 2017 to January 2018

Context

Project with emphasis in web development using PHP, several Javascript Frameworks and MySQL DB for analysis laboratory management area. The main goal of the application was to manage all the processes across all the activities related with laboratory management: Client Management; Budget Production; Services Management; Sample Registration; Sample Collection, Sample Reception; Sample Analysis; Result Registry; Results Treatment and formatting; Report Production; Equipment Management and Users management.

Main Activities

Analysis and architecture planning
 Web Development (PHP (Laravel), CSS, Javascript, MySQL)
 Testing, production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

Management Platform System – 3Bs-UM – Developer

October 2008 to January 2017

Context

Project with emphasis in web development using PHP, several Javascript Frameworks and MySQL DB for the research and management area. The main goal of the application was to manage all the processes across all the activities related with scientific research: Project management; Orders, Purchases and Stocks management; Equipment maintenance, booking and training management; Online Document creation, revision and management; Quality management system control (ISO 9001) and Users management.

Main Activities

Analysis and architecture planning
 Web Development (PHP,CSS,Javascript,MySQL)
 Testing, production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

Management Platform System – CTAC-UM – Developer

June 2015 to September 2016

Context

Project with emphasis in web development using PHP, several Javascript Frameworks and MySQL DB for Research Projects Management area. The main goal of the application was to manage all the processes related with scientific projects management: Application, Execution Control and Finances control.

Main Activities

Analysis and architecture planning
 Web Development (PHP,CSS,Javascript,MySQL)
 Testing, production support and maintenance

Technologies

PHP; JavaScript; MySQL; HTML; CSS; jQuery;

LANGUAGES

A1/A2 Basic user; | **B1/B2** Independent user; | **C1/C2** advanced user

	UNDERSTANDING	SPEAKING	WRITING
English	C2	C1	C2
French	A1	A1	A1
Spanish	B2	A2	A1

EDUCATION

2018 (October)	Agile Software Development: Scrum e Kanban training course by TecMinho (University of Minho)
2010 (December)	Master on Bioinformatics - Development of the final project of the Master on Bioinformatics (2 nd year) entitled "Stem Cell Potential Application Prediction Based On Data Mining of Previous Experimental Data" by University of Minho
2010 (March)	Initial Pedagogical Training Course for Trainers (CAP Formador) – by CEFOLGEST – Formação e Consultoria Lda.
2009 (July)	Completed the 1 st year corresponding to the post-graduation on Bioinformatics. <u>Learning Areas</u> : Genetic Engineering, Optimization, Databases, Advanced Biological Algorithms, System Biology, Statistics and Data Mining by University of Minho
2007 (January)	PHP, MySQL and Apache Training Course by Centro De Estudos O Sábio De Lago
2006 (October)	Computational Algorithms Training Course by Centro De Estudos O Sábio De Lago
2003 (July)	BSc in Applied Biology - <u>Final Thesis/Project</u> : "Isolation and differentiation of rat bone marrow cells into osteoblasts" by University of Minho.
2002 (July)	BSc in Applied Biology - <u>Areas of Concentration</u> : Cytology, Biochemistry, Animal Physiology, Applied Animal Biology, Microbiology, Vegetal Physiology, Applied Vegetal Biology, Ecology, Genetic, Molecular Biology, Genetic Engineering, Applied Virology, Immunology and Biomaterials by University of Minho.