



João Quintanilha

FULL-STACK DEV · BACKEND DEV · BLOCKCHAIN DEV

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Summary

Current Software Developer with an MSc in Computer and Telematics Engineering. I consider myself as a person who is easily integrated into a team, with a natural talent to deal with a vast variety of assignments. I am a dynamic, resourceful, proactive, and understanding person who dedicated a vast life-part to knowledge expansion through self-learning. Together with great communication skills, I have a smooth ability to adapt to multicultural environments, good organizational knowledge, and noteworthy strategic thinking.

Work Experience

CERN

Geneva, Switzerland

SOFTWARE DEVELOPER

Current

Part of the Experiments department I am responsible to develop and maintain several different applications regarding Compact Muon Solenoid experiments.

Bosch Security Systems

Ovar, Portugal

SOFTWARE DEVELOPER

Jul. 2020 - Mar. 2021

Currently part of Bosch Smart Home, a team composed of 180+ employees. Focus set on Cloud service integrations such as interoperability between device functionalities and Google/Alexa. Together with the German team, I am responsible for enhancing Bosch Services and Devices, providing a better user experience to our clients across an improved IoT ecosystem.

Ubiwhere

Aveiro, Portugal

BACKEND AND BLOCKCHAIN DEVELOPER

Mar. 2018 - Jul. 2020

Take part in H2020 funded projects developing new and sophisticated solutions. Involvement with multiple Frontend and Backend components, Middlewares, and Databases. Create decentralized architectures for Smart-contract based applications. Run and test decentralized applications with the use of Blockchain clients, frameworks, and hybrid approaches.

Projects involved

Bosch Smart Home

- Enhance Fulfillment and Skill adapter services to provide speech control commands via virtual assistants like Alexa and Google.
- Develop services to report device states to Cloud services.
- Build and deploy overall service infrastructure using Docker containers, Jenkins, Artifactory, and AWS Lambda functions.
- Use of different test frameworks to develop integration and system tests, such as JUnit and Mockito.
- Follow Scrum methodologies and Jira backlogs during sprint releases.

drEven - Electrical vehicle charging solution

- Implement Steve to make use of Open Core Protocol (OCP) for Electric vehicle charging using Spring, Java.
- Develop and define Smart-Contract logic using Solidity and Web3.
- Produce RESTful APIs to serve different client applications using Falcon, Python.
- Environment virtualization of multiple Backend services, Middlewares and Databases (Postgres and MySQL) using Docker, Azure and Digital Ocean tools.

Dyagora - Wine certification platform

- Close relationship with our partner, the wine producer Murganheira, to understand requirements.
- Help define Database tables to reach an interoperable Blockchain-Database relationship.
- Develop and define Smart-Contract logic using Solidity and Web3.
- Help developing parts of the partner's Dashboard using ReactJS.
- Help and teach Backend developers to interact with Ethereum clients and contracts.

Physiotherapy management platform

- Client's requirement gathering and analysis for technology usage.
- Develop Backend service components using Falcon, Python.
- Develop a web Frontend for administrative access using ReactJS.
- Test, deploy and maintain services @ Contabo using Docker.
- Develop the Physiotherapy's website to promote their services using ReactJS.

Education

2012 - 2018	MSC & BSc Computer and Telematics Engineering , University of Aveiro	<i>Aveiro, Portugal</i>
2017 - 2018	MSc Software Engineering and Information Systems (Erasmus+) , University of Zagreb	<i>Zagreb, Croatia</i>
2016 - 2017	BSc Information Technologies (Erasmus+) , University of Silesia	<i>Katowice, Poland</i>

Certificates & Awards

2019	Java , Advanced Springboot Development	<i>Udemy, online</i>
2019	Blockchain , Dyagora technical pitch - Blockchers H2020 funded project	<i>Budapest, Hungary</i>
2018	Health , Basic life support	<i>Aveiro, Portugal</i>
2017	Blockchain , Ethereum and Solidity: Developer's Guide	<i>Udemy, online</i>
2015	Languages , First Certificate of English (FCE)	<i>Aveiro, Portugal</i>

Writing

Blockchain for non-tech-savvy

Medium

BLOCKCHAIN DEVELOPER

Mar. 2020

- A drafted article that targets non-tech profiles to explain the mechanisms of Blockchain technology through a quotidian basis.

Multi-agent loyalty program over blockchain

University of Aveiro

COMPUTER ENGINEER STUDENT

Dec. 2019

- Master's thesis written as the conclusion for the Computer Engineering degree.

Languages

Portuguese → Native speaker

English → First Certificate of English (FCE)

French → Limited working proficiency

Spanish → Limited working proficiency

Competency Matrix

Beginner (1) → Academic

Intermediate (2) → Online and certificated training

Advanced (3) → Personal project experience

Professional (4) → Professional experience

Expert (5) → 5+ years of personal and professional experience

Languages	
Java	4
Python	4
Javascript	4
Solidity	4
HTML & CSS	3
Frameworks	
Spring	4
Falcon	4
Mockito	4
Truffle	4
NodeJS	4
Django	3
ReactJS	3
Mocha	3
Flask	2
Databases + ORMs	
Postgresql	4
SQLAlchemy	4
Hibernate	4
SQL Server	3
Others	
Git	4
Linux OS (Bash)	4
Docker & Docker-compose	4
Google & Amazon Cloud APIs	4
Jenkins	4