

Bárbara Diana

Software Engineer



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ABOUT ME

I am a proactive and versatile software engineer with a strong foundation in business management and informatics, complemented by hands-on experience in data engineering, software testing, and quality management. Proficient in Java, Python and SQL, I'm also quick to learn new technologies.



With a passion for technology and a keen interest in game development and mathematics, I am always eager to study new things and expand my skill set.

PERSONAL TRAITS

- Organized
- Autonomous
- Proactive
- Team player
- Attentive to detail



LANGUAGES

Portuguese

Native Proficiency

English

Full Professional Proficiency



WORK EXPERIENCE



Junior Software Engineer
Critical Software S.A.
2023 - present

Achievements/Tasks:

- Designed, implemented and executed extensive software integration testing in compliance with technical standards such as ISTQB Foundation Level and EN50128.
- Contributed to the development of a system validation framework by writing test cases, assisting with debugging, and optimizing processes to enhance testing speed and code reusability.

Technologies/Knowledge: **C++, Jenkins, Git, Jira, Waterfall, CENELEC, ISTQB**



Data Engineer Intern
DataCentric
2023

Achievements/Tasks:

- Developed an internship project, focused on real time data analytics applied to a dynamic recommendation algorithm.
- Developed a POC for the application of Apache Ignite & Spark's distributed in-memory dataframes to handle large scale datasets with minimal impact on existing architecture.
- Provided support on other projects, mainly related to transforming raw datasets into analytical tables for decision-making purposes.

Technologies/Knowledge: **Python, Spark, Ignite, Kafka, MySQL, Docker, Azure, Git, Jira, Scrum**



Quality Manager & Management Assistant
NIBBLE - Engenharia Lda.
2019 - 2022

Achievements/Tasks:

- Implemented and managed a ISO 9001 certified Quality Management System. Integrated and managed an existing NP 4457 certified Investigation, Development and Innovation Management System.
- Created support IT tools such as: automatic document indexing page, strategic decision support dashboard and automated/customized customer surveys.

Technologies/Knowledge: **Excel, Asana, Sage, HTML**

EDUCATION



Bachelor's Degree in Informatics Engineering
Instituto Superior de Engenharia do Porto
2019 - 2023

Final Grade: 16/20

Main Course Units:

- Software and Application Engineering
- Databases
- Algorithms and Data Structures
- Linear Algebra and Computational Mathematics

Technologies/Knowledge: **Java, C, Oracle SQL & PL/SQL, Jenkins, Git, Jira, Scrum**



Erasmus + | European Project Semester
St. Pölten University of Applied Sciences
sept. 2022 - feb. 2023

Final Grade: 1 (Max.)

Main Course Units:

- Scrum
- Virtual Reality
- Serious Gaming/Gamification

Technologies/Knowledge: **C#, Unity, Blender, Gimp, Miro**



Bachelor's Degree in Business Management
Faculdade de Economia da Universidade do Porto
2016 - 2019

Final Grade: 16/20

Main Course Units:

- Data Management
- Statistics

Technologies/Knowledge: **Excel, Access, R, Visual Basic**