

Ângela Barros

SOFTWARE ENGINEER
Porto, Portugal

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Summary

Software engineer with over 2.5 years of experience developing robust code for high-volume businesses in multiple industries. Skilled in machine learning, statistics, problem solving and programming. Passionate about developing data driven solutions. Currently working on my dissertation "Personal Finance assistant in Portuguese" as the final project in the Masters program.

Skills

- **PROGRAMMING:** Python, Java, C#, T-SQL, R, Javascript, C
- **ANALYTICS:** Numpy, Pandas, Matplotlib, Sckit-learn, Keras, Seaborn, Tensorflow
- **DATABASES:** MS SQL Server, MongoDB, BigQuery
- **LANGUAGES:** English (C2 level), Portuguese (Native level), French (B1 level), Spanish (B1 level)

Work Experience

Critical Software

PORTO, PORTUGAL

SOFTWARE ENGINEER

03/2019 - PRESENT

- Built, tested and deployed scalable, highly available and modular software products within the banking industry.
- Extracted and formatted data to simplify implementation for metrics analysis and to identify anomalies
- Designed queries using T-SQL in the SSMS environment
- Developed intelligence-sharing dashboards, providing company-wide access to collected data
- Technologies: **T-SQL, SQL Server, ETL, Reporting Services (SSRS), SSIS, GIT, Altova MapForce.**

Accenture

BRAGA, PORTUGAL

SOFTWARE ENGINEERING ASSOCIATE

09/2017 - 03/2019

- Maintained existing applications and designed and delivered new applications for clients within the tolling industry.
- Built, tested and deployed scalable, highly available and modular software products.
- Collaborated on all stages of systems development lifecycle, from requirements gathering to production releases.
- Technologies: **ABAP, SAPUI5, SAP CRM, SAP ECC, Javascript.**

Projects

Prediction of side effects using deep learning

04/2019 - 07/2019

PREDICT SIDE EFFECTS OF DRUG COMBINATIONS USING DEEP LEARNING

- Development of deep learning models (single and multitask) for predicting side effects from the properties of chemical compounds (drugs) and pre-existing software (e.g. DeepChem).
- **Exploratory Analysis, Data Wrangling, API, Pandas, Numpy, Deepchem, Neural Networks, Deep Learning**

Bitcoin's value simulator

03/2019 - 06/2019

BITCOIN INVESTMENTS SIMULATOR USING PYTHON

- Development of models to predict bitcoin's value in order to invest. Profits of over 800 USD.
- **Exploratory Analysis, Data Cleaning, Random Forest, LSTM, ARIMA, Xgboost, Reinforcement Learning**

Diabetes Analysis

10/2018 - 12/2018

ANALYSIS OF PEOPLE WITH DIABETES USING R

- Created a logistic regression model with 91% accuracy in train data and 95% accuracy on test set.
- **Exploratory Analysis, Data Cleaning, Linear Regression, Logistic Regression, Classification**

Education

Lisbon Machine Learning School

LISBON, PORTUGAL

LXMLS 2019 - NATURAL LANGUAGE PROCESSING (NLP) SPECIALIZATION

07/2019 - 07/2019

- Classification, Structured Prediction (sequences, trees, graphs), Deep Learning and Reinforcement Learning

Universidade do Minho

BRAGA, PORTUGAL

M.SC. IN COMPUTER ENGINEERING - MAJOR IN DATA SCIENCE AND INTELLIGENT SYSTEMS

09/2018 - PRESENT

- Algebra, Statistics, Regression, Classification, Neural Networks, Deep Learning, Recommender Systems, Distributed Processing, Python, R, NoSQL, ETL
- Dissertation with the topic: Financial Bot in Portuguese. The goal is to create a virtual assistant in Portuguese to help users in main tasks such as: see balance, transfer money, pay credit card, etc. Currently on target to be delivered on November of 2020.

IPVC (Instituto Politécnico de Viana do Castelo)

VIANA DO CASTELO,
PORTUGAL

B.SC. IN COMPUTER ENGINEERING

09/2014 - 07/2017

- Algebra, Statistics, Discrete Mathematics, C Programming, Java, Design Patterns, Web Programming, SQL