Ricardo da Silva

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SUMMARY

Bilingual (Portuguese and English) enthusiastic Software Engineer with over 4 years' experience working in many successful projects in business automation and business intelligence. Recently specialized with a master's degree in Data Analytics from the National College of Ireland and holder of a bachelor's degree in Computer Science from one of the most reputable universities in Brazil. Passionate about technology, machine learning, mathematics, statistics, data science and challenging projects. I am a competent team player with leadership, self-starter ability, strong troubleshooting and problem-solving skills. Holder of a valid work permit in Ireland with Stamp 1G.

Expertise and Career Highlights
- Proficiency in writing code in scripting language, Java, R, Python, MATLAB, SQL and SQL/PL, MapReduce and highly experienced using principles of OO Design in multi platforms and operating systems.
- Experienced in java web development technologies like Spring Boot, Spring MVC, Spring Data JPA, JDK, Spring Framework, Hibernate, Maven, Eclipse, Tomcat, JBoss, Primefaces, Thymeleaf, Bootstrap, JQuery, MySQL, RESTful API / REST API / RESTful web service, Git, GitHub
- Database design, development and integration using state of the art DBMS
- Experienced in building systems using SQL Server, Oracle, MySQL, HBase, MongoDB, Apache Cassandra
- Proficient in IBM SPSS, Hadoop, Sqoop, Tableau, Pig (Apache Pig), Apache Hive, Apache Spark, RStudio, SQL Server Management Studio, SQL Server Integration Services (SSIS), SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS), SQL Developer, Eclipse, TortoiseSVN, TFS
- Distributed programming skills for data processing of large scale datasets/big data using distributed systems technologies
- Knowledge of Service Oriented Architecture, Web Services and cloud computing
- Proficiency in testing oriented development in line with the best practices of Software Engineering and Quality Engineering
- Knowledge in data manipulation/analysis operations using libraries and multiple data science methodologies for analysing and modelling data to solve complex problems
- Knowledge in design and development of experimental and analytic plans for data modelling processes applying various machine learning techniques and statistical data modelling using different metrics
- Experienced in working to agreed timelines to deliver high-quality software solutions together with technical documentation
- Worked closely with business and technical subject matter experts to understand functional requirements that can be distilled into technical requirements
- Delighted to collaborate and provide guidance and mentoring for new team members
- Familiar with concepts of source control, versioned software and software development lifecycles
- Excellent verbal and written communication skills with good interpersonal and Networking skills
- Looking for an opportunity to work in fast-paced, innovative environment where I can contribute and develop my skills

EDUCATIONAL

- **MSc in Data Analytics (Irish NFQ Level 9),** National College of Ireland, Dublin-Ireland | Sep 2018 - Jan 2020
- **BSc (Hons) in Computer Science (Irish NFQ Level 8),** UFPE, Recife-Brazil | Aug 2008 - Apr 2013

Further Education & certificates
- Third level: General English, Academic Bridge College, Dublin | Mar 2014 - Mar 2017

PROFESSIONAL EXPERIENCE

Software Engineer (Java Developer) | Freelancer, Brazil and Ireland | Mar 2014 - Present
- Disciplined approach to Java software development / coding. Working on backend frameworks applying concurrent programming experience; collaborating with customers and implemented new features

- Specifying changes and implementing these changes to resolve recurring problems within software applications
- Giving advice in the analysis of business requirements and the selection of technical solutions for small developments, executing these small developments and carrying out enhancements on software applications, to solve business problems and enhance functional performance to satisfy internal customers

Successful Projects
- *Project:* **SIMAS - Students Information Management System (Jun 2016 – Present)** Project Description: Designed and developed an organized and systematic solution essential for schools, colleges and organizations using java web spring boot technologies.

Software Engineer (Java Developer) | OKI Brazil, Recife-Brazil | Oct 2011 - Mar 2014
- Designed and developed high-volume, low-latency applications for mission-critical systems and delivering high-availability and performance. Worked to agreed timelines to deliver high quality software solutions together with technical documentation
- Contributed in all phases of the development lifecycle; wrote well designed, testable, efficient Java codes
- Ensured designs were in compliance with specifications. Prepared and produced releases of software components
- Supported continuous improvement by investigating alternatives and technologies and presenting these for architectural review
- Worked on several projects of business intelligence, ETL, data warehouse and business automation.

Successful Projects
- *Project: Inicializador - Initializer (Oct 2012 – Mar 2014)* |Project Description: Project development and implementation of an ETL (Extract, Transform and Load) process for populating the Datawarehouse with large amount of data in an efficient way. To overcome the problem of delay when transferring data operating SSIS, I developed the entire ETL process using bulk copy program utility (bcp) that reduced the time of the load process in about 75%. *Technologies: Java, SQL, Oracle, Microsoft SQL Server Management Studio, Microsoft SQL Server Integration Services (SSIS), Tortoise SVN, Bugzilla, Shell Scripting, Linux, Windows.*
- *Project: Cubo Consolidado – Consolidated CUBE (Oct 2012 – Mar 2014)* |Project Description: Complete Business Intelligence solution for management and analysis of historical data to support greater future business decisions. Project development and implementation of a consolidated BI Web platform to connect the Datawarehouse and access reports with rich visuals such as charts, maps and dashboards. *Technologies: Java, JavaScript, SQL, Oracle, Microsoft SQL Server Management Studio, Microsoft SQL Server Integration Services, Microsoft SQL Server Analysis Service, Spring Boot, Spring MVC, Spring Data JPA, JDK, Spring Framework, Hibernate, Maven, Eclipse, Tomcat, JBoss, Primefaces, Bootstrap, JQuery, RESTful web service, Tortoise SVN, Bugzilla, Shell Scripting, Linux, Windows. OKI Project Link*
- *Project: SCOPE – Complete System for Electronic Payment (Oct 2012 – Mar 2014)* | Project Description: Project development and implementation of an Electronic Payment System for online payment functions of debit card module created for Itaú, one of the biggest Banks from Brazil. *Technologies: Java, JavaScript, Spring Boot, Spring MVC, Spring Data JPA, JDK, Spring Framework, Hibernate, Maven, Eclipse, Tomcat, JBoss, Primefaces, Bootstrap, JQuery, RESTful web service, Tortoise SVN, SQL, Oracle, Microsoft SQL Server Management Studio, Bugzilla, Shell Scripting, Linux, Windows. OKI Project Link*
- *Project: SIAC Mobile (Mar 2012 – Mar 2014)* | Project Description: Back end development of a mobile application for checking prices and recording sales, allowing customers to register purchases through smartphones (Android or iPhone) and compare prices of products from the conventional physical stores and virtual storefronts. *Technologies: Java, JavaScript, Spring Boot, Spring MVC, Spring Data JPA, JDK, Spring Framework, Hibernate, Maven, Eclipse, Tomcat, JBoss, Bootstrap, JQuery, RESTful web service, Tortoise SVN, SQL, Oracle, Microsoft SQL Server Management Studio, Bugzilla, Shell Scripting, Linux, Windows. OKI Project Link*
- *Project: iTest (Oct 2012 – Mar 2014) |* *Project Description*: Software development of automatic tests of web applications.

Software Engineer Intern (.NET Developer) | SUATi, Recife-Brazil | Dec 2010 - Sep 2011
- Produced code using .NET languages (C#, VB .NET). Revised, updated, refactored and debugged code improving existing systems for several BTB clients such as Chesf from Brazil
- Provided technical support for web, desktop or mobile applications. Participated in requirements analysis. Collaborated with internal teams to produce software design and architecture.
- Wrote clean, scalable code using .NET programming languages. Tested and deployed applications and systems.
- Developed documentation throughout the software development life cycle (SDLC)

- Served as an expert on applications to non-technical clients and provided technical support to any requirements from customers/ clients

Successful Projects
- *Project:* **GENE (Dec 2011 – Oct 2012)** | Project Description: Full stack development of new modules, features and functions for a management system of energy market resources according to the client's requirements. Responsible for creating a new structure of automatic tests for the main product, reducing in about 80% the time of manual tests. *Clients:* [Chesf](#), [Eletrobras](#), *etc. Technologies: SQL Server, Microsoft Visual Studio, C#, .Net, Team Foundation Server (TSF), Tests Automation.* [SUATi Project Link](#)

DATA ANALYTICS PROJECTS

MSc in Data Analytics| National College of Ireland | Sep 2018 - Jan 2019
- Advanced Data Mining | Statistics for Data Analytics | Data Warehousing and Business Intelligence | Programming for Data Analytics | Data Storage and Management | Data Visualization | Research in Computing | Research Project | Strategic ICT & eBusiness Implementation

Successful Projects
- *Project:* **Machine Learning Approach for Myoelectric Pattern Classification of Hand Gesture Intention** | Project Description: Development of a study for classification of hand gesture intention based in data analysis of muscle electric activation. Performed data retrieval, data description, cleaned data, exploratory analysis, features scaling, features selection. Modelling different machine learning approaches (KNN, SVN and Random Forests) for validating and evaluating results. *Technologies: R (Programming Language), Machine Learning, Support Vector Machine, Random Forests, K-Nearest Neighbours, Genetic Algorithms, Data Modelling, Data Analysis, Models Evaluation (Confusion Matrix, ROC), Shell Scripting.* [MSc REPORT Link](#)

- *Project: A MapReduce Approach for Quantitative Analysis of Price Variation, Volume and Value of S&P 500 Index* | Project Description: Design, development and implementation of a tool for distributed processing of large amount of data using Hadoop MapReduce framework for automated exploratory analysis of S&P500 stock market economics index in respect to price variation, volume (number of transactions) and daily average price of stocks. *Technologies: R (Programming Language), Java, Parallel Data Processing, Distributed Programming, MySQL, HDFS, Hadoop, Map Reduce, HBase, Sqoop, Shell Scripting, Linux, Windows.* [MSc REPORT Link](#)

- *Project: Impact and Role of Elite User Reviews on Businesses (Yelp Dataset)* | Project Description: Data Analysis of customer data from YELP dataset for investigating the influence of elite users reviews in the general rating of a given business. Developed a classifier for business star rating based on users' reviews sentiment analysis. Performed data retrieval, data description, cleaned data, exploratory analysis, features scaling and features selection. Modelling KNN, SVN and Decision Tree approaches, validating and evaluating results. Technologies: R (Programming Language), Machine Learning, Artificial Intelligence, Natural Language Processing, Sentiment Analysis, Support Vector Machine, Decision Trees, Logistic Regression, Random Forests, K-Nearest Neighbours, Data Modelling, Data Analysis, Models Evaluation(Confusion Matrix, ROC), Shell Scripting. [MSc REPORT Link](#)

- *Project: Historical Brand Value and Public Opinion Analysis of Most Valuable Brands* | Project Description: Development of a Datawarehouse with historical information about the most valuable brands from 2019. Extract, transform and load data from different data sources obtaining information of sector, geographic location, brand value, etc. Extraction and sentiment analysis of tweets related to the bands in study to verifying the popularity of the brands in the microblogging platform. Creation of charts and graphics using data visualization tools like Tableau. *Technologies: R (Programming Language), SQL, MySQL, Microsoft SQL Server Management Studio, Microsoft SQL Server Integration Services, Microsoft SQL Server Analysis Service, Tableau, Natural Language Processing, Sentiment Analysis, Data Analysis, Datawarehouse, Twitter API, Shell Scripting.* [MSc REPORT Link](#)

GENERAL SKILLS & INTERESTS

- **PROFESSIONAL MEMBERSHIPS:** Member since 2012 of Brazilian Computer Society
- **Languages:** Native Portuguese | Fluent English | Intermediate Spanish

References Available on Request