

Americo Vasconcelos - MSCS, BSCS and BSEE

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Java/PL-SQL/ETL Developer

With a broad and varied background in software development, encompassing tasks from analysis and design to coding, testing, integration, configuration, management, and documentation, this experienced IT specialist brings a rich array of skills to the table. Proficient in diverse aspects of data warehousing including design, ETL, DTS, modeling, OLAP, and neural networks, complemented by a solid understanding of PL-SQL/Java technology for constructing resilient multi-tier applications. Proven adeptness in systems analysis, database design, and programming, with hands-on experience across a spectrum of sectors including banking, government, telecom, defense and software industries.

Programming Skills

Advanced proficiency in J2EE technologies (Servlets, JSP, EJB, etc.) for robust application development.

Skilled in XML data handling using various tools, both off-the-shelf and customized.

Extensive experience in Java frameworks (Swing, Struts, Wicket, JSF) for multi-tier applications with PostgreSQL, MySQL, SQL Server and Oracle databases.

Proven track record in client/server application development with VB, VBA and Java.

Proficient in Linux shell scripting (tcsh/bash) for ETL automation and system management.

Expertise in utilizing Java, SOAP, REST, SSL and JSON for web service integration.

Fluent in Python for ETL scripting, particularly with Oracle and Snowflake databases.

Database Skills

Practical expertise in Oracle and SQL Server databases, proficient in T-SQL/PL-SQL scripting and DTS methods.

Skilled developer adept at utilizing database features like Stored Procedures, Functions, Constraints, Triggers, and more.

Proficient in complex data operations including joins, sub-queries, and set-based operations.

Comprehensive understanding of data warehousing aspects like ETL, modeling, OLAP and neural networks.

Extensive experience in query optimization, performance tuning, and troubleshooting for optimal database functionality.

Professional Experience

Fidelity – Durham, NC

October 2022 - March 2024

Principal Software Engineer: Proficiently developed ETL solutions to streamline data processing and integration.

Languages: SQL, PL/SQL Python and Unix (bash/shell)

DBMS: Oracle (19C) and Snowflake

Relevant projects:

- ATC - I supported a dashboard application that consolidates data from various sources using ETL scripts written in SQL, Python and Bash shell, scheduled with Control-M. Additionally, I developed PL/SQL procedures to enforce business rules.

Vanguard (Consultant) – Charlotte, NC October 2021 - September 2022

Technology Analyst: Contributed to cross-functional teams in designing, developing, and deploying PL/SQL based applications, enriching the company's financial services platforms.

Languages: SQL and PL/SQL

DBMS: Oracle (19C/18C/12C)

Relevant projects:

- CDAO - In my key role in this project, which focused on modernizing Oracle databases, I led the effort to identify and deprecate unused objects to optimize databases and streamline operations, while also developing PL/SQL procedures to ensure adherence to company guidelines..

Freelance (Self-Employed) - Brazil

May 2020 - October 2021

Software Developer: Worked independently or with clients to design, develop, and deploy custom software solutions based on J2EE technology to meet their specific needs and requirements.

Languages: Java and PL/SQL

Frameworks: Wicket

Technologies: Multitier using J2EE, REST, SSL, XML and JSON

DBMS: Oracle, MySQL using JDBC and JPA (Hibernate/Spring)

Relevant projects:

- DataComex (Patent# BR 51 2017 001038-2) - Utilized advanced auditing and data mining techniques to develop a dynamic web application monitoring taxpayer activities. The application securely queries the Brazilian IRS using REST/SSL, aiding in streamlined compliance and fraud detection, saving over US\$500 million for the State of Tocantins Treasury Department.

State of Goias Treasury Dept, Brazil

December 2009 - May 2020

Systems Developer: Designed, implemented, and maintained software systems to streamline financial processes, enhance data management, and ensure compliance with regulatory standards.

Languages: Java, PGSQL and PL/SQL

Frameworks: JSF and Wicket

Technologies: Multitier using J2EE, REST, SSL, XML and JSON

DBMS: Oracle, MySQL and PostgreSQL using JDBC and JPA (Hibernate/Spring)

Relevant projects:

- WebDocat - This web application, employed within courthouses, facilitates document creation through customizable templates. Leveraging the "LibreOffice" word processor, it addresses the absence of tools for the "OASIS" format by incorporating a customized document handling API.
- AudComex - Proved adeptness in designing and developing a J2EE web application utilizing advanced auditing procedures and data mining techniques to monitor taxpayer exportation activities proactively. Through parsing invoices and customs documents (XML format), the application significantly boosted tax collection of the State of Goias Treasury Department, detecting various frauds and increasing revenue, exceeding US\$1 billion.

Additional Relevant Experience

Tribune Media Services – Queensbury, NY
Applications Developer

General Electric (Consultant) – Albany, NY
Senior Support Analyst

DAZ Systems, Inc. – Los Angeles, CA
Oracle Applications Technical Consultant

Oracle Corporation - Denver, CO
Support Engineer

Echostar Communications – Littleton, CO
Senior Operations Analyst

Education

MSc in Computer Science
Federal University of Goias, Goiania - GO - Brazil

PGDip in Computer Networks
Federal University of Goias, Goiania - GO - Brazil

PGDip in Systems Project & Analysis
Federal University of Goias, Goiania - GO - Brazil

PGDip in Accounting Administration
Catholic University of Goias, Goiania - GO - Brazil

BSc in Computer Science
Federal University of Goias, Goiania - GO - Brazil

BSc in Electrical Engineering
Federal University of Goias, Goiania - GO - Brazil

Certifications

CISCO - Cisco Certified Network Associate

SUN - Sun Certified Programmer for the Java 2 Platform 1.4 (JAVA)

SUN - Sun Certified Web Component Developer for the Java 2, Enterprise Edition Platform (J2EE)

SUN - Sun Certified Business Component Developer (EJB)

ORACLE - Oracle Certified Associate (PL-SQL)

SNOWFLAKE - SNOWPRO Core Certified