



Guilherme Gustavo Ramos Gomes

Date of birth: 29/05/1979 | **Nationality:** Portuguese | **Phone number:** (+351) 925482211 (Mobile) |

Email address: guilhermegrg@gmail.com |

Address: Rua da Rochinha 117 AB, 9060-280, Funchal, Portugal (Home)

● WORK EXPERIENCE

19/09/2022 – CURRENT Lisboa, Portugal

SENIOR SOFTWARE DEVELOPMENT ENGINEER HITACHI VANTARA

- Development of data aggregation and query tool deployable in K8s or on-prem. Tech stack: Rust with Apache Arrow, Flight and Flight SQL, Datafusion, ObjectStore, Tokio, serde, s3s, gRPC and Protobuf. Automation tests in Java.
- Refactor and improve codebase
- Unit and integration tests
- Development of client CLI for Flight SQL in Rust
- Development of contexts, steps and scenarios for automation testing of engine in Java
- Creating and updating feature files in gherkin for testing
- Updating Java Proxy component between REST API and Apache Flight
- Managing Jira tickets, Confluence documentation
- Providing analysis and assessment of tasks for Sprint Planning and Grooming

15/03/2020 – 13/09/2022 Portugal

SENIOR IT APPLICATION DEVELOPER AMS OSRAM

Design, Implement and maintain several internal company applications on Oracle APEX and Databases.

Schema Dependency Explorer - APEX application using custom Javascript and PL /SQL to graphically display dependencies between schemas as a Graph, allowing navigation and exploration, as well as the display of the dependencies per database object type.

PL / SQL Script Creator - Java application that given a set of Excel pages containing configuration related to the main tables of an application, will create a set of PL / SQL scripts based on templates, to configure the internal application APIs in their schemas.

Design and implementation of the replacement of the main application that manages quality related events in the manufacturing processes. It is comprised of three main React applications integrated in Oracle APEX, with REST endpoints developed in ORDS, and a backend configuration application.

Redesign of a main manufacturing control system, encompassing several schemas and configuration applications. Major change from a centralized into a distributed approach, as the company has several new manufacturing locations in many countries.

ETL - Export, Cleanup and Import of data from several sources - Sharepoint, Excel, Oracle Databases - through Toad import utilities, custom PL / SQL and Pentaho Data Integration for updating or implementing new applications.

Onboarding of new developers.

Tech Stack:

- Oracle DB
- PL/SQL
- Oracle APEX

- ORDS
- React, Redux, Saga, Material UI
- Jira
- Confluence
- Git
- Toad
- VS Code

29/04/2014 – 29/08/2020 Funchal, Portugal

OWNER, HEAD COACH CROSSFIT FNC

- Keeping the Business Running
- Planning Workouts
- Teaching Classes
- Organizing seminars, local sporting events
- Developing and maintaining our scheduling, billing and reservation system.

2018 Upland, United States

TRANSLATOR BEYOND THE WHITEBOARD

Translation of more than 7000 web app and mobile app entries from English to Portuguese

2008 – 2011 Funchal, Portugal

SENIOR RESEARCHER MADEIRA INTERACTIVE TECNOLOGIES INSTITUTE

- Modeling a Working Company (NOS Madeira)
- Developing a REST solution that could be dynamically changed through scripts (Groovy) for a product prototype

2006 – 2008 Funchal, Portugal

TEACHER ESCOLA DA APEL : ASSOCIAÇÃO PROMOTORA DO ENSINO LIVRE

Teaching Information Systems at the Technical Course for Multimedia – Type 6 – Level 3

Lectured Topics:

Module 1: communication systems; data transmissions mediums; bandwidth; transmission and communication modes; architectures for computer networks; OSI and TCP/IP models; computer networking equipment : hubs, bridges, switches and routers; Ethernet technologies; token ring; FDDI; Internet services; characterizing, installing and configuring web servers.

Module 2: HTML standards, document structure, tags, text formatting, hyperlinks, tables, forms, frames, images, CSS, basic JavaScript and event handling.

Module 3: Introduction to programming; syntax and semantics, natural language algorithms, flowcharts, introduction to a scripting language, variables and data types, flow control structures

2006 – 2006 Cupertino, United States

REMOTE CONTRACT PROGRAMMER ORBITAL NETWORK ENGINEERING

- Building a SWING component using the JFreeChart library.
- Optimizing a JFreeChart component to support interactive display of large data sets.
- Modification of a JFreeChart component to simultaneously display multiple data

2006 – 2009 Funchal, Portugal

TEACHER ESCOLA DA APEL : ASSOCIAÇÃO PROMOTORA DO ENSINO LIVRE

Teaching Informatics at the Technical Course for Legal Services – Type 6 – Level 3

Software and Hardware, Windows Graphical Interface, Internet and Security, Browsers, Email and Security, Using and configuring Outlook Express, Word, Excel, PowerPoint.

2004 – 2007

FREELANCE

Developing a Flash web site for a few local companies: Site design, Flash and ActionScript development, Image processing, Domain and hosting setup.

Creating short 3D movies using the Celestia open source tool. Configuring Celestia, Searching and choosing additional texture packages, Configuring texture packages, Creating video sequences, Capturing video sequences, and Compressing videos.

2004 – 2006 Funchal, Portugal

TEACHER UNIVERSITY OF MADEIRA

Teacher of practical classes from the Human Machine Interaction course

Organization and planning of practical classes. Evaluating final course projects. SWING programming, User Centred modelling, User Case diagrams, Task Cases. Canonical Abstract Prototypes, TaskSketch and CanonSketch, WISDOM Architecture

12/2003 Funchal, Portugal

ASSISTANT UNIVERSITY OF MADEIRA

Assistant at the Intelligent User Interfaces / Computer Assisted Design of User Interfaces conferences IUI/ CADUI 2004

Organization of deliverables for conference attendants, Distribution of deliverables and conference proceedings to attendants, General assistance during conference.

● **EDUCATION AND TRAINING**

2007 – 2009 Funchal, Portugal

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA) EXPLORATION Cisco Local Academy - University of Madeira

CCNA 1: Networking fundamentals: key concepts, OSI and TCP/IP models; layered architectures; main network equipment; addressing schemes; data transports means;

CCNA 2: Routers and routing fundamentals: routing concepts and protocols; how routers learn network topologies and determine best routes; static and dynamic routing; RIP v1 and 2, routing table analysis, EIGRP, OSPF.

CCNA 3: Switching fundamentals: packet routing, communication between routers and switches; network segmentation with VLANs; sharing VLAN information with VTP; redundancy and loop-free with STP; VLAN routing; basic concepts and configuration of wireless networks.

CCNA 4: Wide Area Networks access: technologies; PPP; Frame Relay; Broadband; main security concepts; types of threats; analysing vulnerabilities; main approaches for solving common threats; Access Control Lists; Network Address Translation concepts; introduction to IPv6; resolving network problems.

2006 – 2008 Funchal, Portugal

MASTERS IN COMPUTER ENGINEERING University Of Madeira

Master Thesis – Title: Tabula – a framework for the development of RESTful web applications

Courses: Multimedia Systems, Human-centred Software Engineering, Decision Support Systems, Communication Systems Security, Distributed Systems, Software Design and Implementation, Information Systems Architecture, Network Systems Management, Network-centred Applications, Language and Compiler Theory

2001 – 2006 Funchal, Portugal

COMPUTER ENGINEERING GRADUATE University Of Madeira

Numeric computation and analysis, Electronic Systems and Circuits, Operational Investigation, Functional and Logical Programming, Programming paradigms, Experimental Sciences, Mechanics and Waves, Discrete Mathematics, Digital Systems, Computational Logic, Algorithms and Data Structures, Computation Fundamentals and Theory, Object Oriented Programming, Computer Architecture, Human Machine Interaction, Software Processes and Metrics, Database Management Systems, Operating Systems, Requirements Engineering, Artificial Intelligence, Data Communication and Networks, Computational Systems Architecture.

LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| FRENCH | A2 | C1 | A1 | A1 | A1 |
| ENGLISH | C1 | C2 | C1 | C1 | C1 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

ORGANISATIONAL SKILLS

Organisational skills Organising Development Plans and scheduling

HOBBIES AND INTERESTS

CrossFit Several other certifications as the Owner for CrossFit FNC:

National Olympic Weightlifting Coach Level 2

Olympic Weightlifting Judge

CrossFit Level 2 Trainer

CrossFit Gymnastics

CrossFit Weightlifting

Eleiko Weightlifting for Sports Level 1

StrongFit Seminar

Kettlebell Fitness Sport Nivel 1

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills Working with people from different countries, ages, professions - developers, designers, teachers, students - and educational backgrounds in Portuguese and English.

Contacting various types of companies from several activity sectors.

JOB-RELATED SKILLS

Job-related skills

Experience developing software architectures, APIs, XML specifications, REST services and SWING interfaces. Experience using several Java technologies and open source libraries such as: ZK, Tomcat, XStream, JIBX, DB4O, Neodatis ODB, RESTlet, Guice, LWJGL, Xith3D, Echo2, JSceneGraph, Mr Persister, Groovy, Hibernate, C3PO, JSF, JPA, Servlets, JDBC, jMeter, MigLayout, Apache POI.

Experience developing in IDEs such as Eclipse, Netbeans, JBuilder, DevC++.

Developed the schedule, reservation and billing system for the CrossFit FNC box using ZK, Tomcat and MongoDB, with email and SMS reminders for costumers.

Usage of SQL and database management systems such as MySQL and PostgreSQL as well as their graphical administration tools.

Usage of NoSQL document database MongoDB as well as its graphical administration tool Compass.

Experience in building reports using iReport, JasperReports, JFreeChart and SQL queries.

Usage of the open source Pentaho Business Intelligence suite for building ETL, OLAP, data mining and reporting solutions.

Experience developing web sites with HTML, Flash and ActionScript.

Experience using Wordpress, Joomla and Mambo.

Basic knowledge of OpenGL and 3D programming.

Experience using MS Office and OpenOffice.

OTHER SKILLS

Other skills

Developer of the Tabula open source project. Tabula is a framework for the development of REST applications, following the Model Service Control (MSC)/Service Oriented Front End Architecture (SOFEA) architecture. The project defines specifications for creating and configuring the service and control layer, a graphical editor for the service layer, and a server supporting automatic generation of CRUD applications with a default persistence solution, remote object access via services with XML representation, support for Groovy and on-the-fly changes to all layers of the application.

<https://code.google.com/archive/p/tabulasoftmed/>

Developer of the Java Open Particle System open source project. It is composed of a java library for particle system simulation and a SWING graphical editor with an OpenGL 3D view. <https://code.google.com/archive/p/jops> <https://sourceforge.net/projects/jops/>

Developer of the JATComm open source project. The project allows sending AT commands from a PC to a mobile phone connected in a serial port in order to send text messages. <https://code.google.com/archive/p/jatcomm/>
