

Francisco Gonçalves

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Birthdate: 10 May 1957



PERSONAL PROFILE

More than 34 years of experience in IT, and with High technical background, organizational and management skills and computing sciences Knowledge, through formal and non-formal education, and solid experience as Team Management, Project Management & knowledge-ware IT Consultant positions, held on Information Technology Multinational Manufacturers & Software Companies, an Insurance Company and in Portuguese Banks.

Also with an extensive experience in software development and systems consultancy, project management and leadership of technical and business teams, and always dealing with complexity projects, improving and innovating processes and technological infra-structures.

Proven ability to manage and complete projects successfully, with hands-on approach, and very perseverance to achieve the best results and/or solutions, aligned with the business needs.

Also always focused on details and agreed deadlines and always very oriented to problem solving, troubleshooting and with the right goals in mind.

Excellent negotiation, self-motivator, fast learning capabilities and always dealing with high complexity, figuring ways for its simplification.

I firmly believe, and it is my philosophy at work, that “simplification is the ultimate innovation” [Da Vinci] and the future lies on dealing with complexity and his simplification.

I consider myself a Tech Passionate, always studying and improving on new IT technologies, automation and innovation.

Resuming, during all my professional career i have been a source of innovative solutions, acting as a tech Evangelist and always designing new and creative adoption of existing IT technologies, in order to create more productive and efficient IT Infrastructures and solutions.

IT Skills:

Extensive experience and hands-on on proprietary and in depth open-source solutions and projects, like Unix / Linux and programming automation, business continuity, server & desktop virtualization, cloud-computing, Sql (MySQL, MariaDb, PostGreSql, MSSQL) & Non-Sql databases (MongoDb), Data Warehousing Planning, Business Intelligence (BI) and Business Analysis, Systems and Software Monitoring/Management, rapid web applications development tools for the web (RAD WaveMaker) & Java SpringSource technologies, PHP Frameworks & Tools like CodeIgniter, Yii, CakePHP, CaseScriptPHP, jQuery, & Dojo, Angular.Js, Mobile Multi-Platform Programming, collaboration and web teleconferencing tools, etc.

Proficient in Data analysis (SQL), Data Modeling UML, Business Process Modeling and simulation of process flows.

Developments, installations and configurations of MySQL (and also MariaDb a fork of MySQL) in stand-alone, cluster and distributed environments, with database replication and virtualization.

Proficiency working with tools like [MySQL WorkBench](#), [PhpMyAdmin](#), [Adminer](#), etc. Also during the last 10 years, I have performed analysis and programming of many applications using MySQL, as well developing in T-SQL and creating stored procedures. Also very experienced in the tuning and troubleshooting of databases, focusing on MySQL, [MariaDb](#), PostgreSQL and MSSQL, and also scalable tools for databases handling large volumes of data with replication configurations like [TokuDb](#) (for MySQL, MariaDb and MongoDB) .

As an example of projects that I have more recently developed and implementing also MySQL, please access a [CRM apps](#) (user and password = demo), and a [Website written in Code Igniter and PHP](#) for the Electricity of Portugal Company.

Support Specialist of UNIX and Linux O/S platforms (during more than 34 years), including many application developments in Assembler, C / C++, Cobol, Pascal, Shell, Perl, Python scripts, PHP, Java, JavaScript, T-Sql, JQuery & Ajax and also supporting O/S, Telecoms, Software Development Tools, Databases like Informix, Oracle, MySQL, PostgreSQL, Ingres, etc.

Project developments, including Business and Applications analysis and programming, in areas like Banking branch automation, Telco's, Retail, Public Administration and Insurance companies, amongst many others.

Experienced with Linux distributions includes Red-Hat Centos / Fedora, Ubuntu Cloud, SuSe Linux and Open Solaris, and open-source virtualization technologies like VMware, XEN, Virtual Box (Oracle VM) and KVM (Linux Virtualization).

Design and implementations of Business Continuity & Backup automation Operations at the Data-Center with open-source tools (i.e. LVM snapshots, Clonezilla, rsync, bacula, Veem, VMware consolidated backups, etc.) and lots of programming code written in shell scripts, C language and Perl.

“Hands-on” in Cloud infrastructures design & implementations of [OpenOrm Cloud](#) and vCloud infrastructures to automate the complete banking server's infrastructure, based on open systems and the support of multiple hypervisors like VMware, KVM and XEN. Implementations with Linux Containers using [Docker Technology](#), for MySQL /MariaDb Clusters, Apache2, Nginx and TomCat Web Servers.

Web apps developments (last 4 years experience), with [WaveMaker](#), a powerful open-source RAD Developing Studio, allowing writing fast web apps in JavaScript and Java (for the server side) targeting the Desktop and all the most common Mobile devices, using PhoneGap framework. Programming Web & Device Sensors monitoring apps, using FrameWorks and Javascript runtime platforms like [Node Js](#) and [Angular Js](#).

Experienced in the use of [Svn](#) (Source Version Control) and [GIT](#) for Source Contyrol Versions of all the projects and also RedMine with Svn integration, for projects managemente and Svn version control with a front-end GUI interface.

Proficient in deployments and support to Tomcat, Web Logic, Tornado and Jetty Web Servers / Components. Experienced in the development of PHP with frameworks like CodeIgniter, Yii and CakePHP, Tools like JQuery and Dojo, and RAD tools like Case Script PHP. Experienced with ETL Data Transformations Tools like [ETL Talend](#), implementations of Hadoop and Big Data (Hbase) with [Pentaho](#) and [Jaspersoft](#) for BI and reporting.

Design and implementation of Cloud Infrastructures, mainly with OpenStack, Eucalyptus and [OpenOrm](#), including open-source based software for monitoring and security and IDS solutions. Also with tools like [Chef](#), [Puppet](#), [Vagrant](#), etc., for server automation and [Juju](#) for the cloud orchestration and easier deployment of the Cloud instances into Cloud Foundry (Now Pivotal) on top of Open Stack, for the easier and fast servers deployment, configuration and scale of web apps as PaaS (Platform-as-a-Service).

Design and implementation of several projects, entirely based on open-source solutions, in areas like project collaboration, Office automation, Desktop virtualization, Server and Networking Virtualization, Cloud-Computing, Virtual File Systems and Storage, Distributed File systems and Storage with remote replications, monitoring, security, collaborative solutions with Wikis and Portals like Mindtouch, Alfresco and Liferay, ERP Platforms, Web Cloud Apps infrastructures, Systems / Web Programming in Java, JavaScript and PHP, etc.

Implementations for Monitoring & admin and Capacity Planning Tools (physical and virtual IT environments)

with open-source platforms like Nagios, Munin, Monit, Hobbit, Zabbix, Zenoss, Cacti, Collectd....

Log analysis with Cfengine 3 (Automation & ITIL) and Swatch Logging Analysis.

Hands-on Virtual management tools like Virt-Manager, oVirt, Convirture, OpenQrm and the programming of scripts in shell and Perl, in order to automate virtualization implementations and physical environments, backups, security / IDS (Intrusion Detection) functions and business continuity operations at the data centers.

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MAJOR ACHIEVEMENTS

- Recent implementations of virtualized environments using Lxc Linux containers technologies and [Docker](#), developing scripts to automate the production of Linux containers for almost all the functions in a data-center, from Web / app Server, Database Servers, Developments environments, etc.
- Infrastructure Coordinator in the Implementation of an Open Stack Cloud environment with KVM and VMware Hypervisors and running virtual servers for web apps w/ load-balancing servers and S3 storage. Also experienced with Ubuntu Linux implementations of Juju and Cloud Foundry (PaaS) with Ubuntu Linux and Open Stack, for automatic deployments of Web Apps to tomcat servers. Also experienced programming specific tools to manage virtualization environments, Virtual disks, backups and security, etc., in languages like C/C++, Shell Scripts, Perl and Python.
- Programmer in the development of a web app for Marketing Contact Management, Customer Visits Tracking and Orders/Invoicing. [Db4Project](#) and also all the infrastructure of Web Tomcat Servers, Proxy/Redirectors and Load-Balancing technologies.
- Software development of Web Applications like Orders, Sales & Invoicing, CRM, Online Stock Controls, e-Commerce, Marketing & Postal Delivery Tracking System w/ mobile applications etc., programming with Java, JavaScript, PHP, Perl and Shell Scripting languages. Also experienced using RAD (Rapid Application Development) Tools like WaveMaker (VMware), ScriptCase PHP, Frameworks & tools like Yii, CodeIgniter, CakePHP, jQuery and Dojo for the development of enterprise websites and many web applications for the cloud.
- Project implementations of a virtualized and Cloud infrastructure, involving KVM Linux & VMware ESX virtualization with Eucalyptus Cloud for AWS and Amazon Elastic Compute EC2 compatibility. Also implementations with [Pentaho](#) and [JasperSoft BI](#) platforms and Hadoop w/ Hbase and MongoDB, for the Portuguese Ministry of Agriculture – National Forest Authority Department and Electricity of Portugal (EDP). Experience with automation scripts & tools like chef, puppet, Juju, docker, etc..(..).
- Implemented an Open Stack Cloud Computing infrastructure for the support of scalable web services and storage objects, based on Linux Systems, with KVM and VMware Virtualization, Hproxy & Load-Balancing Systems, Apache & tomcat Webservers, Snort IDS, Zenoss Monitoring, firewalls security, etc., for EDP Partners (Electricity of Portugal).
- Designed and implemented a collaborative e-mail system (replacing Exchange servers) for more than 2,000 users based on Linux high availability systems, all based on Linux and Zimbra VMware platform, in a virtualized infrastructure, with mix of Windows and Linux Servers for Carris, Portuguese Public Company. By adopting flexible and open infrastructures and applications and also implementing the “stat-of-the-art” technologies, our customers were able to reduce operational costs and lead to increase productivity and business agility.
- Designed and assisted in the entire migration of the Data-Center, involving AS/400 IBM Systems and Intel Servers, into a consolidated infra-structure that included the complete virtualization of Servers and Mid-Range Systems (more than 350 servers Windows, Linux & Solaris virtualized) w/ VMware ESX and vCloud, and the implementations of a VSAN (Virtual Storage Area Network), backup automation infrastructure (CDP) and data replication between remote " Data-Centers ".

This project implemented a Virtualization to all servers in the Data-Center reducing in admin Staff costs and power & cooling, resulting in saving of more than 90.000,00 Eur. per Year. (Green IT practices implemented also in this bank for the IT systems).

CAREER HISTORY:**Softelabs / BIZ & PAL (Owner), Devops - IT Infra-structure / Software Developments, Feb 2010 – Now**

- Programming backups, monitoring and security automation scripts in shell and Perl for virtualized environments like KVM Linux, Vmware and for Lxc Linux Containers (Docker.io).
- Web applications developments in Java and Javascript, for the automation and control of retailer projects (in a replacement of a highly expensive ERP - [Seven Minds](#)). The full Apps can be visited [here](#). Web application for Sales & contact management [Db4Wave](#) also written in Java and Javascript using the Rad Development Tool WaveMaker. Web App developed for the Electricity of Portugal Company, written in PHP with jQuery and Dojo, that can be visited [here](#).
- Implemented an complete Open Stack Cloud Computing infrastructure and for the support of multiple web apps, based on Linux Systems, KVM and VMware hypervisors, Open Stack Cloud Computing, Load-Balancing Systems, Zenoss Monitoring, Snort IDS, firewalls security, etc., for EDP Partners (Electricity of Portugal).
- Project implementations of a virtualized and Cloud infrastructure, involving KVM Linux and VMware ESX virtualization with Eucalyptus Cloud for AWS and Amazon Elastic Compute EC2 compatibility. Also JasperSoft BI platform and Hadoop w/ Hbase and MongoDB, for the Portuguese Ministry of Agriculture – National Forest Authority Department.
- Implementation of a Data Warehousing project for the Ministry of Agriculture – National Forestry Authority, with MySQL and PostgreSQL cluster configurations and Data Analytics using JasperSoft BI and JasperSoft Reporting Servers. Also developed an application for all sort of reporting using Java and JavaScript, based on [WaveMaker](#) RAD, with Google Maps and Google Translate integrations. Project duration – 14 Months.
- Implementation and also support of ERP solutions, like OpenErp and OpenBravo, BI platforms from Pentaho and JasperSoft, Sql based MySQL and Non-Sql MongoDB Databases, for Documents Management Applications, Geo-localization web and mobile apps with Google maps integration, Supermarket e-commerce and Accounting, Invoicing automation, mainly for a Marketing & Research company based in Angola.

BANIF, S.A. Bank, IT Infra-structure Coordinator / DevOps - Jan 2002 – Jan 2010

- Technical coordinator of a team involving 16 people, with skills in Unix/Linux, Windows and IBM AS/400, databases, storage systems, virtualization and telecommunications networks. Also responsible for the Data center operations and all the technical infrastructures of the bank operations in Portugal and outside the country.
- Designed and assisted in the entire migration of the Data-Center, involving AS/400 IBM Systems with LPAR technology and Intel Servers, into a consolidated infra-structure that included the complete virtualization of more than 350 Windows/Linux/Unix & Solaris Servers with VMWare ESX, vCloud, and the implementations of a VSAN (Virtual Storage Area Network), backup automation infrastructure (CDP) and data replication between remote " Data-Centers ".
- Coordination of a multi-disciplinary Team in the development, implementation and 2nd level of support, for two main web based applications:
B) Internet Home Banking project in Java with Tomcat Cluster Servers and also MSSQL Cluster Servers w/ replication.

A) “In-house” Customers CRM for the integration of the resulting data from the multiple banking selling channels, also in Java and using MS Clusters SQL Servers w/ replication.

- Designed and implemented a “single sign on” platform based on java contact-less cards, automating the login process for all the bank applications.
- Coordination / Project management & hands-on of complete roll-outs to the branches and Main-Offices, from windows NT to Windows 2000/3/XP, with SMS management and remote support, involving more than 1,200 users in 260 branch offices.
- Designed and assisted in the implementation of a solutions for the bank main-offices based on thin-clients and virtual desktops for the users (more than 1,000 users). Created an agnostic desktop based on Windows, Linux and Solaris apps.

SOLSUNI, S.A., IT Linux/Solaris Projects Consultant, August 2001 – Dec 2001

- Projects for the automation of backup and disaster-recovery functions and central storage systems for a Portuguese Telco, with StorageTek and Solaris platforms.
- General Pre-Sales support to sales & project teams,

ISIWARE, LTD (Owner) and Generali Assicurazioni, IT Consultant, Feb 1995 – August 2001

- Implementation of IP Networking solutions, with support of VoIP (Voice Over IP), over Frame-Relay and ISDN infrastructures, in Portugal (companies like ACP, ICL, Lisnave, Transportadora Lusitânia and TEX-CP Portuguese Railways company) and Republic of Cape Verde (Ministry of Finances and other Government Institutions).
- Application Developments (written in MICROFOCUS COBOL, Visual Basic 6 & Drivers Developments in C++), for Linux/UNIX & Windows Systems, with support of Oracle and SQL Server Databases.
- Development of a complete application for a Transport Company in Visual Basic / C++ and for MySQL and SQL Server.
- Development project with Windows CE and hand held devices, written in Visual Basic and C++ Studio for a transportation company, to automatic manage their deliveries to the customers.

Developments in C++ for UNIX, Linux & Windows Systems with TCP/IP Socks Comms, with RTS Calibration Systems.

- Consultant / Solutions Advisor on the implementation of several projects, like Sna/x25 network compression, Microsoft SNA Server, SNA Gateways token-ring to Frame-Relay at Generali Assicurazioni insurance company, Portugal.
- Project manager & hands-on Telecoms Voice over Frame-relay, VoIP projects, Fax and E-mail integration projects.

OMNITÉCNICA, S.A., Division Manager DataComms, June 1993 – December 1997

- Data Communications Division Manager, with the responsibility for the Sales & Technical Data&Telecom Team of the Company.
- Successful Projects include, beside many others:

1. Lisnave LAN/WAN infrastructure with more than 1,500 access points and more than 30 routing points.
2. Bank of Portugal (Voice&Data&Video integration, with switching technologies and frame-relay transport, over private links).
3. BES Bank (solution for all the branches, that was based on Eicon technology frame-relay cards, and software, special development to implement OSI layer 4 and API interfaces).
4. GENERALI insurance company Portugal (A WAN solution based on Routers with the support of IP Private Networks over the Internet, including hardware Encryption technologies, and many others).

ICL Computers Ltd (Now Fujitsu), Aug 1980 – May 1993

- IT Consultant for O/S (DRX, CDOS, UNIX), Telecoms, SNA, Office X.400 /X.500 and Osi FTAM implementations and technical support.
- Project Team Leader and Design / Development of an application platform for the Banking Branches, to support distributed transactions and communications over mesh networks like Ethernet/Osi, Tcp/Ip and X.25 packet networks (Programming in C++ on UNIX Systems) with real implementations at “Banco Comercial dos Açores” (BCA) and BPA (1985-1992).
- Design and Development (in C++ and x86 Assembler) of specific tools and applications to aid in the development of financial transactions, like a Screen Designer, Transaction Generators, Error Handling Functions, TSR Driver based technologies, etc. (UNIX, CDOS, MS-DOS, Windows).
- Design & Development of drivers for special devices, written in Assembler for Motorola, Intel and Z80, Pascal and C++.
- Programming of a POS Application System, written entirely in PASCAL and Assembler Intel 8085/6, under MPX (Multi-Processor Unix) O/S.
- Systems Analysis and Programming of Accounting, Invoicing, Stock packages (Written CDE/BTL, COBOL and PASCAL).
- Lecturer on Operating Systems Architectures, Data Comms & Programming Techniques, etc.

INFORMAX – Instituto Português de Informática, Oct 1977 – June 1987

- Programmer / analyst with IBM Macro Assembler, COBOL, Fortran, Basic and BTL / ICL languages.
- Development of Data-Entry applications & packages written in CDE/ICL.
- Systems Analysis and Programming of Stock and General Purpose Commercial
- Applications for specific companies, written in IBM Macro Assembly and COBOL, for the IBM Mainframes S/360 & S/370 systems.
- Lecturer on Micro-Processor architectures and on programming languages (Assembler, Pascal, COBOL, Fortran, BTL - Business Translate Language and Basic).

QUALIFICATIONS:

- High school, Sociology/ Economics, 1967, 1975.
- Computer Sciences - Operating Systems, Programming Languages, Tele-processing & Systems & apps Analysis - Instituto Português de Informática, 1975-1978.
- Operating Systems, Information Processing Architectures training course @ ICL Computers, Beaumont Training Center, UK, old Windsor, 1981-1983.
- Project Management and Telecoms Project Management Training – ICL Computers UK and Frost & Sullivan UK. , 1986, 1989.
- Management Training including the following modules: Global management, organizational behavior, customer oriented management, margins and general business management – IBERCONSULT – ICL, 1991.
- Computer Sciences (1st year) – Universidade Autónoma de Lisboa, 2006/7.
- Information sciences (2nd year) – Universidade Aberta, 2007/9.
- Several Computer Systems Courses / Training held in France, UK, Netherlands, USA & Belgium, covering O/S systems like DOS, CCPM, ICL DR-DOS, Unix, ICL DRX, ICL Mainframes S/39, IBM DOS/VSE, Telecoms Platforms and Information Processing Architectures like IBM SNA and ICL IPA, Virtualization technologies and Database hardware acceleration engines, ISDN Protocols & Services, ATM Protocols, Frame-Relay Voice Over Data, and VoIP protocols.

ADDITIONAL INFORMATION

Languages : English – Proficient, French – Professional Proficiency, Spanish – Proficient, German – Basic.

Areas of personal interest and development - Information Sciences, [Robotics](#), [Quantum Computing](#), [Brain Cognition](#), Philosophy, Sociology, Interpersonal Relationship & Team Management.

Personal profile - Enthusiastic, Persistent, Highly Self-Motivation, Creative, Love Challenges, Friendly, Perfectionist, Active Problems Solving, High Tech Evangelist and Innovator.

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