

José R. Sousa

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SUMMARY OF QUALIFICATIONS

- Large experience in **database/data warehouse** and **SQL** (query language).
- Great with **Python** programming in **VS Code**. Created executable from codes, upscaled and enhanced videos with pre-trained AI models using an **NVIDIA GPU**, made **web API** requests to retrieve data/images, created **GUI's** with **TkInter** and **wxFormBuilder**, loaded **Excel** and **XML** files into **pandas** dataframes, read and wrote to Excel files with **openpyxl**, created formatted **PowerPoint** slides automatically, processed image and audio with **ffmpeg**, created **virtual environments**, automated **batch jobs**, etc. *All can be viewed on my Github.*
- Ran **ELT** in **Snowflake** and **ETL** jobs in **Unix** using Unix scripting.
- Fitted **logistics regression** model using **PySpark ML**.
- **Expert at SAS** -- created **stored processes** and **ETL's**, wrote advanced code to produce tables and reports, and truly **mastered SAS macros**. Created performance dashboard with **SAS/GRAPH** and reports with **Proc Report**.
- Expert knowledge of **SAS Enterprise Guide** and **SAS Enterprise Miner**.
- Strong with **statistical models** and **data analytics** and familiar with **actuarial analyses** and **actuarial reports**.
- Expert at **MS Excel**, created advanced spreadsheets with **VBA macros**, **automated charts and graphs**.
- Most of my experience is in the **insurance** industry. Created a wide variety of **loss triangles**, calculated ceded losses from **reinsurance** contracts, calculated earned premiums and joined claims to policies to create reports on **loss ratio** and **in-force policies**, among others. Performed **data reconciliation** with the general ledger.
- Exposure to **accounting principles** (GAAP, STAT), created **YTD summary reports** to support quarterly filings (10-Q and 10-K) using the **general ledger database** and performed **account and profit center level reconciliations** with it.
- Graduated in **Math / Statistics** from the **best university in Brazil (U of São Paulo)**.
- Very analytical, **self-taught**, can work independently, **wrote papers** in math as hobby (e.g. <https://arxiv.org/abs/2109.15306>). *Great programming and data management skills come from math background.*
- Languages: English, Portuguese (native) and French.
- **U.S. citizen** (had a **green card** through **NatGen** previously).

SOFTWARE

- **Databases:** **Oracle**, **Teradata**, **SQL Server / SSMS** and their **IDE's**.
- **Data Warehouse:** **Snowflake**, **Databricks**, **PySpark**, **BigQuery**.
- **Programming:** **Python**, **VBA**, **VBScript**, Unix/Windows batch scripting.
- **Cloud Computing:** Working knowledge of **AWS**, **Azure** and **GCP**.
- **SAS:**
 - Platforms: **Unix**, **Linux** and **Windows Server**.
 - Modules: **BASE**, **STAT**, **GRAPH**, **ACCESS**, **CONNECT**.
 - Expert knowledge of most used **Procs**, including **Proc Report**.
 - Advanced **macro language**. **Stored processes**.
- **BI / Statistical Modeling:** **SAS Enterprise Guide**, **Power BI**.
- **Operating Systems:** **Unix**, **Linux**, **Windows**.
- **Code Editors:** **VS Code**, **Jupyter Notebook**.
- **MS Office:** **Excel**, **PowerPoint**, **OneNote**, **SharePoint**.
- **Other:** **Git**, **regular expressions**, **Jira**, **WinScp**, **Putty**, **MSYS2**, **XML**, **JSON**.

PROFESSIONAL EXPERIENCE

Wells Fargo (banking)

Senior Lead Analytics Consultant (IG / US Tech / remote)

10/2022 – 02/2025

- Worked on **customer remediations**, responsible for the creation of the final artifacts from which refunds and letters are issued to customers as required by **regulators**, following strict **Confluence** procedures.
- Managed **SAS** code used to create final remediation artifacts, made changes to the code to add **enhancements**, **optimize performance** and minimize the number of **defects** and findings in **peer reviews**. As an example of enhancement, when a new analyst takes over a remediation, all the **artifacts** and **SAS** tables created by the previous analyst are **automatically** saved to a new subfolder as **backup**.
- Created **ETL**'s to produce new artifacts by mapping fields from the execution data requirements (EDR) to data tables. Contributed to design **artifact layouts**.
- Used **GitHub** for code version control and sharing and **DMS** as a secure repository for storing and sharing artifacts.

Truist, Charlotte, NC (banking)

Data Developer SQL/Python (Randstad contractor / remote)

09/2021 – 06/2022

- Created rules based **decision tool** for the compliance and data analysts to choose their optimal analytics application as a web form created in **Python**.
- Created and maintained current report on user accesses for the various **proprietary applications** and data repositories (**AD**, **ACL**), for **compliance**.
- Ran reconciliation between **ServiceNow/RITM** and data pulled from the **mainframe** to assess correctness of an automatic ticket creation process for abends (abnormal job termination), and presented findings with **PowerPoint**.
- Pulled reports from the **SAS grid** and from the **data lake/data warehouse** with **Snowflake** and produced **documentation** following internal **templates**.

Florida Blue, Jacksonville, FL (healthcare)

SAS Developer (Datasoft contractor / remote)

04/2020 – 08/2021

- Developed **ETL** codes to pull data from databases such as **Oracle** and **DB2** and others, using **SAS 9.4** on **AIX** (Unix) and **Enterprise Guide**.
- Joined the data from multiple sources to create agent **fraud detection** analytics for the **SIU** dept with various metrics. Created **macro to automate** the formatting of the report for each metric using **Proc Report**, and added all to a single **Excel** file using **ODS tagsets.ExcelXP**.
- Automated and scheduled various **SAS ETL codes** in **Unix**, with a **SAS macro** that scans a **Unix** directory for **SAS codes**, submits them, generates a log file and a summary **error report** and sends the error reports and output by e-mail.
- Used **HTML** syntax in **SAS** to compose rich text e-mail alerts.
- Combined **DOS**, **WinScp** and **VB** scripts to schedule codes and automate moving files to and from **Unix** and Windows shared folders using **SFTP** (secure transfer).
- Used **SAS Proc Export** to export **SAS** tables from **Unix** to **Windows**.
- Created a neat **SAS stored process** for various canned reports.
- Created **visualizations** and **reports** using **Power BI** and **Python**.
- Gave **training** to team members on how to design **SAS stored processes**, covering how to create the **GUI** and how to handle the variable **user's inputs**.

National General (now Allstate), New York, NY (insurance)

Insurance Data Programmer / Data Manager

04/2015 – 12/2019

- Reported to the holding company's chief actuary.

- Planned and created datasets in SAS by combining data from various databases from which loss triangles and data analytics were produced.
- Created actuarial loss triangles used in reserving models with SAS macros, and reconciled the numbers with the company's general ledger.
- Created quarterly company-wide YTD summary report in Excel using general ledger data pulled with Oracle BI Discoverer to support quarterly filings and the annual report preparation (10K, 10Q), for the SEC and other regulators. Later, BI Discoverer was replaced by straight SQL queries on an SSMS linked server.
- Participated in the ATLAS project, whose goal was to capture claim and policy level data into the GL Oracle database.
- Using SAS, performed statistical data analyses to track performance of products, lines of business and segments.
- Mastered the internal claims data system of the company (EPIC), stored in Oracle and SQL Server databases, as well as legacy data, and moved the data to the SAS server to create reports with SAS macros and SAS code. These reports were used internally or provided to consultants, auditors and regulators.
- Created complete documentation about work done on legacy data from acquired companies (such as Tower and EuroAccident), covering data reconciliations, reinsurance logic for ceded losses, SQL queries used, etc.

AIG, New York, NY (insurance)

SAS Programmer (Experis contractor / FTE)

12/2011 – 12/2014

- As a data modeler, planned and pulled data from multiple sources (mainframe, DB2, SQL Server and Oracle) to produce enhanced tables that met the needs of all reports and models and processes, using ETL and SAS/Access interface to OLE DB, ODBC, etc.
- Created ETL's to read VB/VSAM files on IBM mainframe and load them into SAS tables on Windows. These files became the data foundation of the Global Actuarial Pricing department.
- Wrote advanced SAS macro and created a wide variety of loss triangles used to derive LDF's and obtain the ultimate claims.
- Worked in the deep dive and profitability analyses of the book of business, by pulling data on losses and premium, and policy and insured attributes (such as SIC codes) to generate various reports and metrics that provided insights about the performance of the various lines of business and segments.
- Created a smart algorithm for linking policies based on insured and policy characteristics in SAS. This policy linking groups policies into accounts and is the basis for the creation of account level model estimates, which go into a scoring model called AQI (Account Quality Index).
- Worked with Deloitte consultants and provided them with various loss triangles to be used as inputs into the Commercial Auto pricing tool. Also worked closely with Deloitte on the Specialty Worker's Comp model, making sure that deliverables such as SAS codes, data and predictive model results met the requirements.
- Created weekly scheduled jobs to pull submission data entered by underwriters into the AQI model and update a Qlikview dashboard that displays information such as number of accounts by AQI score, business type, region, etc.

EDUCATION

M.B.A. - São Paulo Business School/EAESP-FGV, São Paulo, Brazil

Bachelor's in Statistics - University of São Paulo, Brazil

Bachelor's in Mathematics - University of São Paulo, Brazil