

Omega SA

29th September 2021

2502 BIEL/BIENNE
SWITZERLAND

Watch Data Engineer

Dear Sir or Madam,

After having surmounted the difficulties due to the advent of quartz timepieces, the Swiss watchmaking industry came out stronger than before and with Omega SA as one of its standard bearers due to the confidence that customers have in the quality of its products. Nevertheless, we live in times of rapid change and keeping an edge over the competition is more important than ever. The advent of sophisticated data infrastructures provides companies with a means to improve processes and get a better handle of operations.

My educational background is in the physical sciences and exploiting large amounts of data has been part of my professional experience for a long time. Throughout my career as a research scientist I relied on the power of computers and the data that they generate in order to elucidate and predict the properties of materials for energy storage and generation. The crown achievement of this investigative process, was the communication of the results with the research community by way of scientific articles often written in collaboration with different teams or in international conferences where I presented my results. My published articles can be found on my google scholar page (link above).

Since leaving the world of academic research I have been able to adapt my skills to the fields of Data Engineering and Data Analysis. I have also extensive experience with Python, which I have used in several contexts, for example as a tool for analyzing data with **pandas/scikit-learn**, as a tool for moving/extracting data with **sqlalchemy** and as a means to visualize data with **matplotlib/seaborn/Plotly**, among others. Through practice, I have gained significant knowledge of SQL and tools like Dataiku DSS, for which I am an instructor.

Among my most notable professional experiences I count the time that I spend at Essilor. My job consisted of creating ETLs written in python which handled data from the company's fabrication machines and optical calculators. These data were then made available through the Amazon cloud and analyzed using Dataiku DSS. My current project at L'Oréal has brought me to work on the construction of a data infrastructure to handle the needs of the R&D teams, thus it has been paramount to construct datawarehouses and datamarts to give users access to up to data information on things like worldwide products, ingredients, regulations, etc. My added value in these projects apart from my daily activities has been twofold: by applying my data analysis skills I have been able to provide decision makers with valuable information with regard to the tasks that need to be prioritized while my capacity to abstract concepts has allowed me to automate time-consuming tasks.

There are many more aspects to my diverse career and life experience that I have not shared here with you, but that I can no doubt elaborate on should you decide to contact me. Thank you for your time, I look forward to hearing from you.

Best Regards,

Mario Burbano

