Cristian Rivas

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☁ portfolio: https://cristian-rivas.streamlit.app/ GitHub: https://github.com/potatocris/Projects

SUMMARY

A Former CAPCO (Global Management and Technology Consultancy) Data Analyst with proven expertise in optimizing business processes through tailored data solutions. Strong background in problem-solving and analytical thinking with 2+ years as a structural engineer.

SKILLS

Data Sourcing & Cleaning: SQL, Python (Pandas, Polars, Numpy, Regular Expression), Excel (Power Query & DAX), PySpark

Analysis & Mining: Excel (advanced functions, Pivot tables), Google's BigQuery, SQL, Python (Pandas)

Data Visualization: Tableau, Power Bi, Excel Pivot Charts, Streamlit, Python (Matplotlib, Seaborn, Plotly) Version Control: Git, GitHub

EXPERIENCE

Data Analyst Freelancer — **Remote**
UpWork — **May 2023 - Present**
- Created a strategic Tableau Dashboard and implemented an ETL pipeline for a maritime agency to assess marketing effectiveness and monitor monthly revenue. The use of clear visualizations resulted in a remarkable 20% increase in marketing utilization.
- Delivered a Web App Dashboard for a personal trainer, enabling clients to log in and access their performance data. This streamlined approach saved the trainer hours typically spent on data organization and manual report creation for each athlete.
- Automated the aggregation of multiple files into a single CSV file using a Python script, saving the client a substantial amount of time and manual effort.

Associate Data Analyst Consultant — **London, United Kingdom**
CAPCO — **April 2022 - June 2023**
Client: Tier-1 Bank
- Collaborated with the client to establish ESG (Environmental, Social, and Governance) analytics across the organization.
- Implemented and maintained PySpark-based validation checks for incoming data from 14+ external providers, encompassing 5,000+ data attributes. These checks resulted in a significant 30% reduction in data-related issues, enhancing pipeline efficiency.
- Spearheaded a Proof of Concept (PoC) initiative to introduce daily ESG news and sentiment analytics for relationship managers. This involved collaborating with four vendors, meticulously vetting their data, and presenting proposals to senior stakeholders. Following a successful PoC, the client progressed to full-phase testing with two recommended vendors.
- Promoted to Lead Analyst, within 8 months of joining, responsible for directing task priorities and mentoring two junior analysts.
- Proactively updated our internal documentation and the GitHub repository, resulting in smooth onboarding for new joiners and improved collaboration with the engineering and front-end teams.
- Assisted the client in negotiating reduced fees with major data providers by supplying comprehensive data quality reports.
- Achieved a remarkable 100% accuracy rate in client entity matching with external data sources, utilizing advanced fuzzy string-matching techniques in Python, and employing data cleaning with SQL.

Data Analyst Consultant — **Remote**
Jfabulous — **January 2023 - May 2023**
- Developed an efficient invoice database system for a jewelry seller, resulting in a remarkable 30% reduction in planning procedures.
- Implemented a Power Bi Dashboard using the star-schema model to track monthly sales, identify top-selling products, and track key performance indicators (KPIs). This strategic tool contributed to a monthly sales increase from approximately $4K to $5K.
- Provided expert guidance to the client, enabling informed purchasing decisions, debt reduction, and achieving a net positive financial position.

EDUCATION

University of Bath — **Bath, United Kingdom**
- MEng (Hons) Civil Engineering with Placement – 4.0 GPA — **2015-2020**
- Erasmus Exchange at Universidad Europea de Madrid — **2019**

Hackney Community College — **London, United Kingdom**
- A-Levels: Mathematics (A*), Further Mathematics (A), Physics (B), Chemistry AS (B) — **2013-2015**

CERTIFICATIONS

Coursera - Google Data Analyst — **2023**
DataCamp - Data Analyst Associate — **2023**
Coursera - IBM, Python for Data Science, AI & Development — **2022**

Engineering Experience

Design Structural Engineer   **London, United Kingdom**
Conisbee   **Sep 2021 - Mar 2022**
- Created an Excel Workbook to streamline the design process for multiple steel elements across three residential blocks, reducing time spent on iterations by 50%.
- Managed the structural inspections of 20+ residential buildings, coordinating schedules, writing up reports and communicating findings.
- Crafted detailed structural CAD drawing and loading plans using Revit for construction approval.

Graduate Engineer   **London, United Kingdom**
Rendel   **Aug 2020 – Aug 2021**
- Crafted a dynamic Excel Workbook to design over two hundred piled foundations for a 3km long viaduct for High Speed 2 (HS2).
- Developed a VBA script to efficiently clean, process, and aggregate data for over a thousand foundation forces, reducing the design process duration from 4 weeks to 2 weeks.
- Conducted the structural design of segments for the prestressed viaduct and produced the technical report for construction approval.