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, with a strong background in problem-solving as a structural engineer.

EXPERIENCE

Data Analyst Freelancer
UpWork   **May 2023 - Present, Remote**

- Established a strategic Tableau Dashboard and a ETL pipeline for a maritime agency to assess marketing effectiveness and monitor monthly revenue. Through clear visualizations, a 20% boost in marketing utilization was achieved
- Delivered a Web App Dashboard for a personal trainer, enabling clients to log on and track their performance. 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 across several folders into a single CSV file using a Python script, saving the client a substantial amount of time and manual effort.

Associate Data Analyst Consultant
CAPCO   **April 2022 - June 2023, UK, London**
Client: Tier-1 Bank

- Implemented and maintained validation checks using PySpark for all incoming data from 14+ external providers and 5,000 + data attributes, ensuring smooth pipeline execution. Resulted in a 30% reduction in data-related issues.
- Led a Proof of Concept to establish daily ESG news and sentiment analytics for relationship managers by collaborating with four vendors, 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 2 junior analysts.
- Proactively updated our internal documentation and GitHub repository, resulting in smooth onboarding 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 100% accuracy in our client entity matching with external data sources, by leveraging fuzzy string-matching techniques in Python and implementing data cleaning with SQL.

Data Analyst Consultant
Jfabulous   **January 2023 - May 2023, Remote**

- Created an invoice database system for the client, resulting in a 30% reduction in planning procedures.
- Implemented a Power Bi Dashboard using the star-schema models to track monthly sales, identify top-selling products, and key 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 ultimately achieving a net positive financial position.

EDUCATION

University of Bath   **2105-2020, Bath, United Kingdom**

- MEng (Hons) Civil Engineering with Placement – 4.0 GPA
- Erasmus Exchange at Universidad Europea de Madrid

Hackney Community College   **2105-2017, London, United Kingdom**

- A-Levels: Mathematics (A*), Further Mathematics (A), Physics (B), Chemistry AS (B)

CERTIFICATIONS

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

SKILLS

Data Sourcing & Cleaning: SQL, Python (Pandas, Polars, Numpy, Regular Expression), Excel's 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

Engineering Experience

Design Structural Engineer
Conisbee   **Sep 2021 - Mar 2022, London United Kingdom**
- 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
Rendel   **Aug 2020 – Jul 2021, London, United Kingdom**
- Created a dynamic Excel Workbook to design over 200 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.
- Carried out the structural design of segments for the prestressed viaduct and produced the technical report for construction approval.