

MICHAEL HANNA

Data Engineer

Expanding my skill set beyond the oil and gas industry!

PROFESSIONAL EXPERIENCE

Jun 2017
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Current

Data Engineer II

EQT Corporation

📍 Pittsburgh, PA

- Write R and SQL scripts to Extract, Transform, and Load data (ETL) from the authoritative sources to enable data-driven decisions for the business.
- Develop insights using Tibco Spotfire, Microsoft Power BI, and R Shiny as needed.
- Report quarterly drilling performance and KPIs to the management.
- Create and deploy all Wellview drilling data audits to ensure data reliability.
- Manage work using cases and work items in Salesforce and repositories in Github.

Apr 2012
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May 2017

Wells Performance Analyst

BP

📍 Anchorage, Alaska

- Develop Excel automated tools using VBA for end of well reporting, wellbore integrity testing calculator, score card, and data audits.
- Provide support to the drilling and workover teams by responding to ad-hoc data requests, answering questions, and providing analysis.
- Act as Landmark applications point of contact for OpenWells, Compass, and Data Analyzer.
- Create and maintain GWO (Global Wells Organization) Spotfire dashboards.
- Compile and manipulate data from different sources to assist with technical analysis (EDM, AWGRS, Finder, SAP Business Objects,...etc.)
- Assist in Drilling Performance Benchmarking and KPIs.
- Update the company legacy tools to comply with the new policies and best practices.

Mar 2006
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Sep 2011

Senior Drilling Data Management Engineer

MCS Freezone (Modern Computing Services)

📍 Cairo, Egypt

- Research, design, install, configure, troubleshoot, train, and support MCS drilling applications.
- Report the Drilling Performance, NPT, root cause analysis, and learn curve management.
- Support the data acquisition, data entry, data QC, and end of well reporting.
- Implement the first Kongsberg real-time drilling data management system in the Egyptian market.
- Install and run PMAC sand monitoring system on offshore rig in Mauritania.

Nov 2004
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Feb 2006

Roughneck

Global SantaFE Corporation, Offshore Key Manhattan Jackup Rig

📍 Port Said, Egypt



CONTACT INFO

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🏠 Pittsburgh, PA

PERSONAL STATEMENT

My engineering background, rig experience, and strong computer skills enable me to understand the business needs and data flows to create user-friendly and efficient solutions that cover the data life cycle from data capturing, data quality control, data extraction and manipulation, data visualization, and data analysis.

SKILLS

Highly Skilled in R (dplyr, tidyr, readr, readxl, stringr, lubridate, ggplot2, DBI, mailr, rmarkdown, and shiny)

Proficient with SQL Scripting
Proficient with TIBCO Spotfire
Proficient with Excel and VBA Programming

Accurate, Reliable, and Quick-Learner



EDUCATION

1998
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2003

- **Cairo University - Faculty of Engineering**
B.Sc. in Petroleum Engineering

📍 Cairo, Egypt



SELECTED ACHIEVEMENTS

- **EQT**

- Developed 'write_2_azure' function in R to QC the written data frames prior to truncating existing tables by adding proper error handling techniques and logging the errors in the relevant database. This prevented erroneous data to be fed downstream and improved the stability of our scripts. The function was later promoted in the company package for the general consumption.
- Automated weekly emails pulling data from Azure SQL database and sending them to joint-venture partners using R.
- Created a Drilling Sandbox which is an interactive Spotfire dashboard taking inputs from the user to tweak the settings and axes to answer endless performance questions which ended, multiple times, On the earning call presentations.

- **BP**

- Developed and maintained the first Spotfire dashboards in GWO Alaska. Received global recognition from BP.
- Created "Wellbore Integrity Testing Criteria Calculator" which determines if the test pressure results meet the acceptance criteria according to "BP Site Technical Practice CRT-AK-10-45: Working with Pressure".

- **EGYPT**

- Awarded a certificate for my successful participation in the "In-House SPE Student Technical Paper Contest", Cairo, Egypt, 2003.

DRILLING APPS

Proficient with Landmark EDM Suite (OpenWells, Compass, Data Analyzer, and Profile)

Proficient with Peloton Wellview

Proficient with Petrobeacon Spotlight Audit App

Proficient with Genesis Analyzer, Designer and Data Entry System (DES)

Proficient with the Drilling Performance KPIs and End of Well Reporting

SKILLS ACTIVELY LEARNING

Python

Azure Data Factory, Data Lake, and Databricks

Power BI and DAX Language

R (purrr, magrittr, timevis, leaflet, plotly, zoo, reticulate, and data.table)

REFERENCES

Scan this barcode with your iPhone camera to look at recommendations on my LinkedIn profile.

Additional references are available upon request.



This resume was created using the R package [pagedown](#).

Last updated on 2020-02-19