Gilbert Hernandez

Houston, TX
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Work Experience

Engineering Technologist II

Occidental Petroleum - Houston, TX
June 2015 to Present

• Technical and Data Analytics support for the Domestic Drilling Operation Business Unit. Consists of seven Rigs and Engineering staff.
• Python based projects using Dataframes and data scraping techniques for analytical purposes and workflow automation.
• Create and maintain Power BI Dashboards for our operational group. These dashboards included drilling metrics and KPI's to be able to quickly and effectively analyze performance between different BHA's, Well types, lateral lengths, Rig lines and more. I was in charge of the entire process, which included extracting the data from our oracle databases, creating relationships between each table and customizing the dashboard to allow for an easy flow.
• Designated POC for SQL queries to extract data from Oracle/SQL-Server Databases. Most times I'd connect an Excel Workbook to our database so that their queries/data would refresh on command. This would avoid them having to reach out every time they needed their data updated.
• Automate workflows and field tasks. This included trying to reduce redundancies in openwells entry by automating inputs with logic. Also, streamlining the process of getting the data from reports that are sent to the field office (such as BHA reports, Mud reports, cementing reports, etc.) all into our database through the backend instead of by manual entry in openwells.
• Data Migration Mapping. I was tasked to assist our IT team with getting all of the Anadarko data translated into Oxy "language" so that we could make fair comparisons.
• Provide training to Drill Site Managers on drilling software(OpenWells). This consisted of determining our problem areas with our data and then creating and presenting this information to our DSM's
• Create Alerts based off of real time data using OSI-PI Servers. We'd connect to NOV Tatco, Openwells and Real time rig data all together to create custom dashboards and alerts based off of certain data points passing certain thresholds.

Drilling Technician

Sabine Oil and Gas - Houston, TX
June 2014 to June 2015

• Wellview technical support. This included customizing UI views for the engineering staff, creating custom reports and working with IT on backend support.
• Ensure data quality coming in from Field Sites. QA/QC data to allow for accurate reporting and data analytics.
• Using the data put into Wellview, create visualizations and analytic reports.

Education

Master's Degree in Data Science
University of Texas at Austin - Austin, TX
January 2021 to Present

Post Baccalaureate Degree in Computer Science
Oregon State University - College of CS and Engineering - Corvallis, OR
August 2018 to December 2020

Bachelor's in Criminal Justice with minor in Applied Mathematics
University of Texas Pan-American - Edinburg, TX
August 2009 to May 2014

Additional Information

Familiar with: Power BI, C/C++, Python, SQL, GitHub, Microsoft SQL Server, Oracle, R, SharePoint, HTML5, CSS, Unit Testing, JavaScript, User Interface(UI), Bootstrap, Flask, OSI Pi Explorer