LAURA FOULQUIER
Big Data Engineer

ABOUT ME

Having worked as a geomechanics consultant, I have gained a lot of insight into how important data analytics and Big Data are. I have experienced projects going over time and over budget, mostly because of outdated data management systems, which has taught me that data management is key to successful project delivery and maximised returns.

I am bilingual and have managed geomechanics projects for national and international companies like VNG Norge, Gazprom Algeria and Repsol S.A., providing well designs and mud weight recommendations for their drilling program.

Outside of work, I volunteered with Age UK to help with their data management system. Working together with others I designed a database to keep track of members' details, attendance records and survey answers using Excel, whilst keeping it as user-friendly as possible.

I enjoy playing team sports and have been selected for the Scotland national squad for touch rugby, after winning the Scottish championship with the Aberdeen team. I am also a certified touch rugby referee.

CONTACT US

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OVERVIEW

I have always been passionate about solving problems and the energy industry which led to my Master Degree in Reservoir Engineering. Throughout my education and work experience, I have been handling data in large volumes and very different formats. Too often, data management systems were outdated, and time wasted finding the best way to manage, analyse and re-format i.e. 3-D grid exported from GoCad, production profile and pore pressure predictions from Eclipse, and well designs from JewelSuite and Petrel. The repetitive struggle led me to look more into databases and their management, and I have been passionate ever since. Being a Big Data Engineer takes this passion to another level, with the challenge of incorporating even more information from various sources like Twitter or Facebook.

WORK

BIG DATA ENGINEER – KUBRICK GROUP, LONDON
At Kubrick Group I gained experience and qualified in: Professional and Communication Skills, IOC (Investment Operations Certificate) Level 1, Advanced Excel, Web Application development (UI/UX, JavaScript, CSS and HTML), Agile and SQL.
I then specialised in the Big Data Engineering course leading to accreditation as a Cloudera CCA Developer.

October 2016 - present
I worked on Big Data projects which exercised my skills in data ingestion and processing using Hadoop EcoSystem tools such as Sqoop, Flume and OpenSource Python Libraries including Pandas and Twython. We cleansed and munged data after exploratory data analysis through Python libraries including Plotly and Pandas then moving onto Spark to process, transform, analyse and stage the data into HDFS.

Projects included:
MetOffice Weather Data: involving Python API and Twitter processing into HDFS followed by further processing in the Hadoop Ecosystem.
Police Crime Data Analysis involving SSIS processing, SQL Analysis, and presentation through custom web front end.

TECHNICAL ADVISOR (GEOMECHANICS) 2013 – 2016
Baker Hughes Reservoir Development Services, Aberdeen, UK

PM for VNG Norge, which resulted in a 12 months' secure contract for the Boomerang prospect. Consulted by business development managers to secure contracts with Gazprom Russia & Algeria. Critical understanding of quality management systems (tools and language, ISO standards).

GRADUATE RESERVOIR ENGINEER 2013
Gaffney, Cline & Associates, Aberdeen, UK

Developing a process to link fracture parameters and in situ stresses, to better determine drilling location and production. Presented at two conferences (Baker Hughes Geoscience forum & Stanford Geothermal Workshop).

EDUCATION

MSC RESERVOIR ENGINEERING, ENSG, UPPER SECOND CLASS HONOURS
National School of Geology, France
2011 - 2012

BACHELOR OF NATURAL SCIENCE DEGREE (FRENCH EQUIVALENT)
2008 - 2010

KEY SKILLS

Python Libraries (Anaconda):
PyMongo, Pandas, Numpy, scikit learn, Plotly and Twython
Cloudera Hadoop version 5.4:
HDFS, Yarn, Sqoop, Flume, Avro, Parquet, Impala, Hive and Hue

NoSQL:	**SQL:**
MongoDB. API with PyMongo	SSIS, Advanced T-SQL and Stored Procedures

Apache Spark:
RDD, DataFrames, SparkSQL, PySpark with some exposure to and understanding of Scala
Source Control and IDE:
Git, SourceTree and Git Extensions, PyCharm
Other Skills:
Linux CentOS 6, SSH, Putty, Agile, JSON and BSON, Python Pickle and Shelve