

andrewalexander

andrew@homeemail.me.uk

contact

Oak Dell
Firs Drive, St Albans
Herts. AL4 8LB
United Kingdom

+44 7710 168 232

Inkdin:andyalexanderuk

programming

Python, R
Javascript, SQL & Java

introduction

I am someone who is motivated by using technology and analytics to improve how decisions are made, and how value is created. Most recently as a data science lead for a leading investment bank, and prior to that as the analytics technology and data science CIO for a leading commodities trading house.

Having crossed between commercial and technology roles I appreciate the motivation and tensions that can exist. Throughout these roles I have remained a 'hands on' leader / practitioner - recognising the importance of being able to 'lead from the front', as well as develop and implement change through strategy.

I bring a unique blend of experience covering hands on analytic roles, through technology strategy, full stack development, IT architecture and CIO activities.

I am equally happy leading a team of 8 or 80, having a track record successfully delivering commercial value with both; what is common is my ability to create commercially valuable solutions using a mixture of analytic frameworks and open source technologies.

education

2003–2008 **BSc** Mathematics and Computer Science
First class honours (1:1)

The Open University (part time)

1994–1997 **BSc** Economics & Accounting
Second class honours (first division – 2:1)

The University of Bristol

experience

2007–2017 **BP Plc - trading technology roles**

London, UK

I have held a number of technology positions within BP, including CIO for analytics and data science, head of technology strategy and head of technology innovation

Illustrative achievements:

- Implementation of Cloudera CDH based Hadoop stack
- Delivery of multiple data science project across trading, and corporate functions including:
 - Vessel destination and cargo prediction
 - Impact of weather on vessel ETA
 - Wind turbine misalignment modelling
- Creation of trading innovation function, and delivery of multiple short cycle prototypes covering topics from geospatial analytics, through twitter mining, to relationship and social interaction modelling.
- Creating an SoA architecture, strategy and subsequently overseeing the design and delivery of the technology implementation including designing the prototype for a Mobile Gateway.
- Insourcing of a delivery organisation, resulting in material savings and productivity improvements.

test

2005–2007 **BP Plc - European Gas and Power Analytics**

London, UK

Working in a hybrid analytics / market risk role, supporting the trading business accross all areas of risk management analytics.

Specific responsibilities of this role were:

- Production of daily VaR numbers, documentation of drivers and presentation to traders and business unit management.
- Design and implementation of a market risk system (which remained in operation for >10 years), including risk attribution, reporting and 'what-if' tooling.
- Acting as subject matter expert for the strategic risk programme
- Working as the liaison between the risk function and quantitative analysis teams.

interests

professional: data analysis, data visualisation, big data analytics technologies, streamed data analytics, applications of machine learning to trading, containerisation, micro-service design using python

personal: furniture making, Arduino hacking, running, cooking, spending time with my family (wife, daughter and dog)