Mohsan Mahmood

Available for contract positions in London

Mohsan is a certified Google Cloud Architect who has worked on projects in partnership with Google. He is an experienced consultant in Cloud, Big Data, AI and Blockchain technology and is equally adept at both the business and technical

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[**Clients**](#_top)

[King.com](https://king.com/) (Candy Crush)

[Vodafone](https://www.vodafone.com/content/index.html)

[Gucci](https://www.gucci.com/)

[Farfetch](https://www.farfetch.com/uk/)

[Media Markt Saturn](https://www.mediamarktsaturn.com/en)

[Unilever](https://www.unilever.com/)

[Havas](https://havas.com/)

[AEG](https://www.aegpresents.co.uk/)

[BASF](https://www.basf.com/)

[Nordea](https://www.nordea.com/en/)

[TUI Travel](https://www.tuigroup.com/en-en)

Ericsson

**Skills and Technical**

**Big Data & Cloud**

Google Cloud GCP

Microsoft Azure

Amazon Web Services

Hadoop

Spark

Docker

Jenkins

Git

Machine Learning

Deep learning

NoSQL

Cassandra

Tableau

Power BI

Flink

Cloudera

ETL

Hortonworks

**Google Cloud Platform GCP**

DataProc

DataFlow

Apache Beam

Datalab

Big Query

Big Table

Pub/Sub

Kubernetes

App Engine

Compute Engine

Container Engine

TensorFlow

**Blockchain**

Ethereum

Dapp

Bitcoin

Solidity

Algorithm Design

Hash functions

Cryptography

Distributed ledger

Smart Contracts

**Programming Languages**

Python

Scala

Java

C++

C#

Golang

Unix/Bash

Linix

SQL

Hive QL

Pig

R

AutocCAD

Matlab

HTML

Javascript

CSS

**Business and Project Management**

Leadership

Innovation

Consulting

Planning

Design

Management

Problem Solving

Logical thinking

Project & time Management

Lean

Agile (Scrum)

**Certifications**

**Google** Cloud Platform Architect

**Google** Cloud Platform Engineer

**Stanford University** Machine Learning

**Udacity** Self Driving Car Engineer

**Pentaho** Data Integration &Analytics

**Hortonworks**, **Cloudera** Hadoop Architect & Developer

**Work Experience**

**June 2019 – London**

Principal Google Cloud Consultant Various Consultancy Organisations

* Involved in several successful bids for GCP projects for consultancy organisations
* Responsible for Infrastructure, Engineering, Strategy and Architecture of projects
* Managed bid processes from end to end. Both commercial and technical
* Worked closely with Google on the setup and execution of large GCP projects
* Formed teams, created training materials and ran learning workshops for teams and individuals
* Guided and implemented on migration process to GCP, Architectural best practices and Engineering excellence
* Worked extensively with Kubernetes, CI/CD, Microservices and Configuration Management technologies

**Sept 2018 – April 2019 London, Germany**

Principal Google Cloud Consultant [Media Markt Saturn](https://www.mediamarktsaturn.com/)

* One of the key members of the Cloud Consulting & Migration team for the whole company – responsible for the migration to GCP
* Advised on which Google Cloud technologies to use for companywide adoption of the cloud
* Designed, Built and managed using Cloud Composer, Kubernetes, Pub Sub, Dataflow, Dataproc, BigQuery, Apigee, Cloud Functions, Cloud Build, TensorFlow, Python, Java, Go
* Used Terraform and Ansible to automate GCP infrastructure provisioning
* Engineered CI/CD pipeline for various use cases in a DevOps capacity, Putting Designs into Action
* Delivered demos for customers and teams
* Created personalised learning programs for teams within the company to build and enhance cloud skillset within the company
* Produced strategic plans on how to achieve goals within the Analytics, Machine Learning, Data warehousing and Microservices spaces
* Consulted on migrations of large enterprise systems to GCP
* Designed, engineered and built operationalised data processing systems
* Implemented network security and ensured compliance using Google best practices

**Sept 2017 – Sept 2018 London, UK**

Principal Architect, Technology Syphon Consulting

* Built and guided internal teams on technology, strategy and product development
* Consulted to clients on Big, Data, Blockchain and AI
* Worked closely with in house development team on agile development lifecycle
* Oversee system and design architecture
* Helped development teams with technical development and mentoring
* Project managed internal and external client projects
* Consolidated technology and innovation practice
* Developed and maintained Ethereum blockchain apps using Ethereum, Solidity, web3 js and Angular

**Mar 2017 – August 2018 London, UK**

Principal Big Data & Cloud Architect Pythian

* Principal Architect for EMEA region
* Worked internally and with clients to design, develop and deliver Cloud, Big Data and AI projects
* Worked with clients King.com, ARM, Gucci, AEG and FarFetch
* Provided thought leadership on technical and strategic matters in Cloud, Big Data and Analytics
* Won client engagements
* Coached and developed teams
* Consulted, designed, developed on clouds AWS, GCP and Azure
* Worked closely with the CTO on technical and project requirements
* Worked closely with Google to design and build GCP workflows, pipelines, and lead sessions in white boarding designs and builds of software and cloud infrastructure
* Designed and built Kick Analytics as a Service on Azure and GCP in order to demonstrate product
* Worked with multiple petabytes of data with clients, designing and building pipelines to transfer huge data workloads to Google Cloud Platform, Big Query using python, Jenkins, git, cloud storage, DataFlow, DataProc and Kafka/PubSub
* Helped produce high quality documentation on presales, product write ups and communications with team members internal and external

**Oct 2016 – Dec 2016 Germany**

Lead Big Data Architect Hortonworks, BASF

* Hortonworks Big data consultant at largest chemicals company in the world
* Implementation of a Data Lake
* Spark, Spark Streaming, Hadoop, Big Data design
* Apach Nifi, Datalake, Big Data Visualisation
* Cluster setup, tuning and management
* Design, Build, Deploy
* Scala development

**May 2016 – Oct 2016 London, England**

Senior Big Data Architect Vodafone

* Created reference designs for global Big Data project
* Developed Spark applications in Scala and Python
* Developed a Kafka backbone for realtime/streaming data
* Used Machine Learning to develop algorithms
* Liaised with international colleagues in order to produce Concept Designs and High Level Designs
* Evaluated and recommended technologies for multi million-pound tool selections
* Consulted IoT department on cloud strategy and design
* Created requirements specifications for RFP process
* Designed specific solutions for market specific implementation

**Nov 2015 – Feb 2016 London Bridge, London**

Big Data Architect Hitachi Consulting

* Lead Big Data Architect in a €1.5m project for a large bank
* Designed and implementing a key Regulatory Compliance solution for client for up to 1PB of data
* Used Scala to build and prototype applications
* Worked with senior management and took charge of technical vision of the company
* Lead team of developers and engineers
* Used Hadoop, Python, Machine Learning
* Trained and certified in big data technologies Pentaho DI and BA
* Took part in design workshops for Hitachi Rail Automated Predictive Maintenance project
* Worked on building Industry Demo to showcase Big Data technologies at work
* Developed cost models for Hardware, Software and Consultancy
* Represented the company at a global R&D exhibition in Berlin
* Used Big SQL to provide federation to other data sources
* Used Text Analytics to analyse unstructured data content
* Used BigSheets to analyse, visualise and transform structured and unstructured data
* Used Data Server Manager to manage, monitor and provision tasks on Hadoop cluster.

**Technologies**: Hadoop, Map-Reduce, Pentaho, BigSheets, Big SQL, BigInsights, Text Analytics, BigInsights Data Server Manager

**Mar 2015– Aug 2015 Farringdon, London**

Data Architect Havas Helia

* Used Python as primary backend scripting language to develop a social media analytics system for a large top 100 FMCG client
* Used Cassandra as main store for many millions of custom records
* Installed, scaled, tuned and connected Cassandra for use with systems and end products
* Product invention
* Designed and Architected solutions for large FTSE 100 client
* Used Unix/Linux/Ubuntu machines on EC2 AWS
* Worked with Virtual Machines, V nodes, Amazon Red Shift,
* Designed and built user interfaces - UX
* Performed Social Media analysis using a combination of API’s, python scripting, algorithms and data stores, then built services off platforms created
* Worked in an agile environment
* Worked on Jira as main task and project management system
* Designed, Built and deployed a REST API using Flask
* Built Wireframes to demonstrate proof of concepts

**Jul 2014 – Mar 2015 London**

Big Data Consultant R&D

* Used IBM Watson and to analyse speech data
* Used IBM Biginsights to mine social media data, extract insights and export results to csv or flat text format
* Used Python to crawl Twitter data for sentiments analysis which meant turning unstructured data into structured and then turning into insight
* Installed, configured, tested and deployed Hortonworks Hadoop on a 12 node cluster
* Scripted and created queries using Hive, Pig, Oozie, Sqoop and ZooKeeper
* Created statistical models using Octve and R to analyse house prices and economic data
* Set up Hadoop clusters (100+ nodes) on physical hardware and AWS (Amazon Web Services)
* Used R for statistical analysis and visualisation
* Designing, building and prototyping a Concept IBM Watson supercomputer
* Hadoop and MapReduce Fundamentals – Creating, configuring and scaling clusters in multi-node environments, Hadoop architecture, Hadoop system design, Hadoop administration, Hadoop components, Hive, Pig, Storm, Spark
* Machine Learning – Linear regression, linear algebra, logistic regression, regularization, neural networks, system design, support vector machines,
* Statistical analysis of large datasets using R and Python

**April** **2014 – July 2014 TUI Travel**

Big Data Consultant London

* Worked on key project of implementing Big Data technologies throughout the organisation in order to provide self-service BI to end users for analysis, visualisation, and benchmarking of vital business areas
* Worked with key international stakeholders from Germany, France, Belgium, Netherlands and Nordic
* Managed and worked closely with onshore and offshore team
* Managed stakeholders and steering committee
* Worked in an Agile environment with bi-weekly sprints and deep dives
* Raised user stories, defects and managed backlogs in an Agile and Lean environment
* Created Product Management system using MongoDB
* Interrogated datawarehouses using HiveQL (HQL)
* Worked on Big Data technologies such as; Hadoop, Hive, Impala, HQL, R, Cloudera, Platfora, NoSQL Groovy, Java, Avro, Amazon Web Services
* Used Cloudera Hadoop, UNIX, Groovy, Java VMware, Hive and Impala to create enterprise solutions on TUI MPP data cube.
* Create MapReduce jobs from command line
* Worked very closely with Product Owner to translate requirements for development team
* Raised defects on Agile project management tool Rally
* Implemented Lean practices, including MVP, a robust Build, Measure, Lean product cycle and key customer analysis
* Developed and drove POC ‘s (Proof of concept)
* Performed key mappings to determine where current data is and where it will belong in the big data machine
* Verified whether input (XML) files are equal to the output, raising any defects and fixing errors
* Created web scraping tool using Python
* Gave presentations to key stakeholders to inform them of big data concepts, give project status feedback and most importantly,
* Quizzed and interviewed key end-users to determine best features to include in big data visualisations which were then implemented in Platfora
* Performed BA tasks on a web scraping tool which allows competitor comparisons to be performed
* Received training in Platfora, on design and build of visualisations

**February 2014 - April 2014 NHS CLCH**

Big Data and Cloud Consultant Victoria, London

* Worked closely with the CIO to discuss strategy, Models and Implementation of forward thinking technologies, especially *Cloud, Big Data* and *Analytics*
* In charge of analytics for one quarter of CLCH servicers (CLCH serves *1 Million* of the population in London)
* Areas of reporting include; IAPTUS, 18 Weeks RTT, Psychological and Offender Health, High level Performance Dashboard, SUS submissions, Smoking, IP, OP, A&E, KH03, Dental, SHRAD, PREMS, Sexual Health (Including HIV), 6 x Walk In Centres, TB.
* Used MS SQL Server 2008 to create scripts and code for various reports
* Developed and built Qlikview applications and reports resulting in easy, intuitive and highly functional reporting system
* Created ETL jobs, Stored Procedures, triggers and automated reports using SQL Server SSIS packages
* Cleansed and massaged data into required formats and specifications

**September 2008 – February 2014 NHS, M&S, LOCOG, Veolia**

Independent Data Consultant/Contractor London, UK

* Worked with NHS(various places), M&S, LOCOG, Veolia on data related projects
* Worked with various companies on data, analytics and business projects in the following industries:

Healthcare, Supply chain, Retail, Waste Management,

**Education**

**September 2006 – May 2008 Queen Mary University of London**

BEng Mechanical Engineering

**September 2004 – May2006 Brooke House Sixth Form College**

London

3 A-Levels in Maths, Physics and Biology

**September 1998 – May 2003 Norlington School for Boys**

Leytonstone, London

6 GCSE’s Including Mathematics and English

GNVQ ICT

**Hobbies and Interests**

I enjoy reading up on new advancements in the world of Science and Technology. I love playing various sports, especially football. A love of travelling.

References available on request