

RAVI BHATT

TECHNOLOGY LEADER & CLOUD COMPUTING ARCHITECT

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5+ YEARS' SUCCESS LEADING DATA ENGINEERING TEAMS, 15+ YEARS' OVERALL SOFTWARE ENGINEERING EXPERIENCE

Repeated success in defining data driven strategies, identifying value creation opportunities, handling transformation projects involving legacy data, and generating data for actionable insights. Results-driven professional who encourages and mentors team members to acquire new skills.

Track record of delivering data & analytics solutions for global brands and government.

Expertise in building a Highly-Available systems that can serve millions of customers with a throughput reaching several thousand requests a second.

Related skills and experience:

- **Enterprise Architecture:** Expert knowledge in defining, refining and evolving enterprise level architecture across cross-functional teams and business units.
- **Consultancy Background:** Consistently involved in liaising with stakeholders, working on identifying requirements, converting one-liners to technical tasks, writing proof of concepts, and managing large sized teams.
- **Big Data Engagements:** Strong background of developing high performance, scalable systems with API layers, being involved in PoCs, technical evaluations, and vendor selections. Enterprise level experience in Cloudera, Hortonworks and Apache Hadoop distributions.
- **Cloud Computing:** AWS certified architect with years of experience in migrating to Cloud solutions. Hands on experience in breaking down huge projects into manageable working units across teams.
- **Big Data Engagements:** Strong background of developing high performance, scalable systems with API layers, being involved in PoCs, technical evaluations, and vendor selections.
- **Technical Proficiencies:**

Languages: Java, Scala, Python

Big Data: Hadoop, Spark, Spark Streaming, Kafka, NiFi, Hive, HBase, OpenTSDB, Sqoop, Oozie, Teraform, AWS – Redshift, Lambda, EMR, Kinesis, DynamoDB, Elastic Search, Tableau, QuickSight, Athena

Machine Learning: GATE, Mahout

Dev Ops: AWS Cloudformation, Terraform

Others: Kubernetes, Docker



PROJECTS

AWS Data Lake - The Guardian

Worked as a lead solutions architect and big data & cloud computing SME for the Guardian. Responsible for reviewing existing artefacts, sharing best practices across different teams, conducting PoCs, performance optimization and leading & guiding implementations. Projects are based on AWS technologies. Scala, Spark, AWS – EMR, S3, Athena, Redshift, Cloud Formation etc.

Achievements: Formal design and solution definition over existing system. Spark optimizations leading to 25%-40% reduction in runtime and/or cost.

Data Lake - Vodafone

Accountable for one of Vodafone's largest data lake projects, working with a team of architects, developers to load PBs of data into Hadoop for use case development and production.

Responsible for overall architecture and design. Worked with several different business units across the globe to understand and on-board their data needs. Scala, Spark, Cloudera Hadoop, Nifi, Kafka, Talend.

Achievements: End to end Scala-spark solution in production replacing old python-based system. Data onboarding time reduces to hours from days. Lead a team of developers, analysts and architects.

Performance Optimizations & PoCs - Betfair

Responsible for cloud computing and big data architecture. Assisted in backing up 1M+ metrics with multiple TB of data. Collaborated with a team on HBase schema design and YARN application development.

- Performed error resolution for HBase cluster and Root-Cause analysis that saved countless hours.
- Developed streaming data pipeline on top of Apache Kafka, Spark Streaming, Hadoop, and HBase.

Achievements: Non-responsive OpenTSDB cluster improved to return sub-second responses over millions of metrics. End to end PoC over bet-stream to front end chart in sub-second time.

Recommender System - ASOS

Defined big data strategy and fine-tuned existing machine learning work. Spearheaded the architecture of a big data solution for in house recommendation system. Coached and mentored others on the team with big data/Hadoop technologies. Used Elasticsearch to run queries that used facets and custom scripts.

Achievements: Built a Highly-Available system that can serve millions of customers with a throughput reaching several thousand requests a second. Handled close to 150M records with a ~200 milliseconds response time. Achieved sub half-second response time with 300 concurrent queries.



CAREER EXPERIENCE

Cloud Solutions Architect/Tech Lead | The Guardian

OCT 2018 - PRESENT

Enterprise Cloud/Data Architect | Avios – British Airways

MAR 2019 – MAY 2019

Cloud Data Architect | Virgin Money

JUNE 2018 – OCT 2018

Tech Lead & Big Data Architect | Vodafone/BAE Applied Intelligence

OCTOBER 2016 – MARCH 2018

Big Data Architect Consultant | HM Government

APRIL 2016 – SEPTEMBER 2016

Cloud Computing Consultant | Betfair

FEBRUARY 2015 – MARCH 2016

Big Data Architect | Santander

NOVEMBER 2014 – JANUARY 2015

Big Data Architect / Developer | ASOS

NOVEMBER 2013 – OCTOBER 2014

Hadoop Architect / Developer | British Gas

FEBRUARY 2013 – AUGUST 2013



ADDITIONAL EXPERIENCE

Hadoop Architect / Developer (2012 to 2013) ▪ WGSN (Contract)

Big Data Developer (2012) ▪ Expedia

Senior Software Engineer (2010 to 2012) ▪ Qubit Digital Ltd.

Assistant Systems Engineer (2005 to 2010) ▪ TATA Consultancy Services (India & US)



EDUCATION & CREDENTIALS

Master of Science in Information Technology

Dhirubhai Ambani Institute of Information & Communication Technology, India (2005)

Professional Development: AWS Solutions Architect – Associate (Aug 2018)