



HELSONKUMAR M

Lead Data Engineer

My Contact

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Specialization

- Data Engineering
- Architecting on Cloud
- Application Modernization
- Software Development
- Problem Solving

Technology Skills

- BigData
- GCP , AWS , OpenShift
- Java , Scala, Python, SQL
- Data Structure & Algorithms
- DevOps, Apache Spark, Kafka, NoSQL, Kubernetes, Docker, Microservices, SpringBoot.

Certifications

- [Google Cloud Certified Professional Cloud Architect](#)
- [AWS Certified Solutions Architect - Associate](#)

Education Background

- Bachelors of Technology
Electronics & Communication Engineering
Anna University - Chennai, India

About Me

- I am a Software Development Engineer specializing in Data Engineering and Architecting on Cloud.
- Deft in designing and implementing effective and scalable systems that enable various business strategies.
- In my 11+ years of professional experience I have helped large enterprises in solving their complex business problems using data as the key element.
- My role involves designing and building Data-Driven Platforms and Data Pipelines for integrating across systems. Also I help business applications with their digital transformation journey.
- I can help with your Cloud Architectural decision-making and getting it successfully implemented.
- I love Coding... :)

Professional Experience

Citi

December 2018 – Present

Key responsibilities:

- I work for the Citi Enterprise Technology Service platform (ETS).
- As a senior engineer, I help internal business applications with their Application Modernization and Cloud Migration journey.
- Lead the design, build, test, and deployment phase of various containerized applications on Google cloud, AWS, and OpenShift platforms.
- Lead the on-premise to cloud data migration activities.
- Lead the design and implementation of highly scalable Data Quality and Data Lineage pipelines on Citi private Bigdata clusters.
- Collaborate with public cloud vendors and on-shore architecture teams in designing highly scalable cloud-native systems for my clients.
- Engage with the technical leadership team in architecture evaluation
- Engage with diverse stakeholders across global teams and distributed cross-functional teams in defining data governance and implementation strategies for various cloud applications.
- Mentor junior developers to assist in their professional development and improve their technical skills.

Technology stack :

- Google Cloud Platform, AWS, OpenShift
- Java, Scala, Python, SQL
- Kubernetes , Terraform, Ansible
- Bigdata Ecosystem, Apache Spark, Kafka
- Spring Boot, API Management
- UAT, Release management

Achievements

- 2018 – 2021
- Took initiatives to democratize the data engineering aspect of our platform and made it self-served for non-technical business users. Also successfully implemented it in a production-scale environment. This has greatly helped in reducing the business change requests from various stakeholders and the number of incidents raised.
 - Recognized platform wide for enhancing the developer experience by reducing the execution time of CI/CD process by introducing cloud native tools and technologies. This significantly increased the developer's productivity and supported the faster time-to-market ambition of our business.
- 2015 – 2018
- Played a major role in extending talented in-house technology developer pool for NatWest Retail platform. Recognized through pat on the back and various platform wide awards.
 - Recognized for modernizing various legacy web applications.

Language Proficiency

English – Professional

Tamil – Native

Hindi – Intermediate

NatWest Group

Oct 2015 – Dec 2018

Key responsibilities:

- Led the design and Implementation of various Bigdata pipelines for NatWest Enterprise Data Hub, Mortgage Speed Zone, and AWS public cloud migration projects.
- Have designed multiple real-time streaming and batch pipelines using confluent Kafka and Apache Spark.
- Contributed to the firm's indigenous enterprise event-driven framework based on AWS Lambda serverless technology.
- Involved in code development, system integration testing and collaborated with on-shore stakeholders in defining UAT strategies.
- Coordinated global testing and monitored defect tracking and took it to resolution.

Technology stack :

- Java , Scala , Python, SQL
- Bigdata Ecosystem , Apache Spark , Kafka
- AWS
- Spring Boot

BNY Mellon

Jan 2014 – Oct 2015

Key responsibilities:

- Big Data Application Development and maintenance
- Design and build data structures on the MPP platform (Hadoop) to provide efficient reporting and analytics capability
- Data optimization(both underlying data structure and ingestion pipelines) for use by reporting platforms
- Prototype ideas into a working application.
- Build ad hoc reports for various stakeholders.

Technology stack :

- Java , Scala, SQL
- Bigdata Ecosystem ,bash scripting

Sopra Steria

Dec 2010 – Jan 2013

Key responsibilities:

- Solution Designing
- Application Design, Development, Testing
- Build RDBMS Stored procedures and backend batch applications
- Translate complex business requirements into scalable technical solutions
- Design and build Web services
- Business adhoc reporting
- Assist businesses in functional and User Acceptance testing

Technology stack :

- Java, IBM Mainframes
- SOAP Webservice , SQL