Pawan Mishra

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Location: Austin, Tx, US
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BigData & Cloud Specialist

Cloud and Big Data enthusiast with 16+ years of experience in building innovative, large-scale healthcare applications. Passionate about devising creative problem-solving methods for challenging tasks, and committed to learning new technologies and tools.

Highlights

- Experienced in designing & building bigdata analytics pipeline in the public cloud
- Led the development, maintenance, and promotion of Spark platform components across the organization
- Hands-on development experience in Spark, Scala, AWS, and other associated technologies
- Experienced in all phases of product development, from roadmap planning to production rollout
- Accelerated big data and cloud adoption by training and assisting other teams
- Active in organizational activities like recruitment, immigration and visa sponsorship, internship, employee engagement activities
- Work authorization - US Permanent Resident

Experience

Senior Staff Engineer   Nov 2023 – Present
R1RCM   *Austin, Tx, USA*

- Currently leading OptumInsight's provider engineering data platform teams
- **Skills** - Scala, Spark, Python, Azure, Databricks, X12

Director of Engineering   Nov 2021 – Present
Optum   *Austin, Tx, USA*

- Currently leading OptumInsight's provider engineering data platform teams
- Technical owner of OI's provider engg. data platform AWS account having an annual budget of 1.5 million USD
- Led initiatives that resulted in an annual cloud cost reduction of approximately 1 million USD
- Solution Architect for OptumInsight's Azure based analytics product Enterprise Intelligence Platform(EIP)
- Initiated multiple cloud-oriented modernization efforts across applications
- Scaled the pipeline to support 40+ clients with 1000s of monthly builds processing billions of healthcare records
- Helped the organization meet its products data refresh related SLA goals
- Implemented low-code etl authoring framework using SQL & Spark
- Lead product roadmap, cloud cost, resource allocation, and project assignment related activities
- **Skills** - Scala, Spark, AWS, Azure, Databricks, Healthcare Analytic

Sr. Mgr. Data Engineering   March 2018 – Nov 2021
Optum   *Austin, Tx, USA*

- Led the platform foundation team and successfully migrated OADW data pipeline from Oracle to AWS.
- Designed and implemented multiple Spark based libraries that accelerated the cloud migration
- Implemented JSQLParser based library for converting SQL schema from one dialect to another
- Implemented Spark based lightweight and highly efficient data importer library
- Introduced multiple application development and production release related processes
- Optimized ETLs, reducing overall data load time from days to hours
- Implemented measures like Immunization Compliance, Provider Mastering, etc. in Spark
- **Skills** - Scala, Spark, Python, AWS, Healthcare Analytic, Maven, Jenkins, HDFS, Terraform, PostgreSQL, Oracle

Senior Software Engineer   October 2015 – March 2021
Advisory Board Company   *Austin, Tx, USA*

- Added support for running industry standard MS & 3M APR DRG groupers as Spark jobs against AWS EMR
- Implemented custom Hive authenticator for supporting LDAP authentication
- Implemented healthcare metrics like percentage readmission, cost & charges as Spark based enrichment
- **Skills** - Scala, Spark, Python, AWS, Healthcare Analytic, Maven, Jenkins, HDFS

PRIOR EXPERIENCE

Associate Development Manager
Advisory Board Company

Chennai, TamilNadu, India
September 2013 – June 2015

Analyst
Barclays Capital

Pune, Maharashtra, India
July 2012 – August 2013

Senior Software Engineer
Advisory Board Company

Chennai, TamilNadu, India
August 2010 – June 2012

Senior System Engineer
Infosys

Bangalore, Karnataka, India
October 2007 – July 2010

SKILLS

Languages	:	Scala, C#, Java, Python
Frameworks	:	Spark, Hive, Delta, Hadoop, HDFS, Databricks
Tech Stack	:	BigData, AWS, Azure, .Net, Java
Databases	:	PostgreSQL, Dynamodb, SQL Server, Oracle
Dev Tools	:	Git, Sonar, Maven, Jenkins

EDUCATION

Dr. MGR Deemed University
Bachelor of Science in Computer Science. Gold medalist with 9.2 CGPA.

Chennai, TamilNadu, India
May 2003 – May 2007