

Pawan Mishra

pawanmishra.github.io | [LinkedIn](#) | [GitHub](#)

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

Director of Engineering

Optum

Nov 2021 – Present

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

Optum

March 2018 – Nov 2021

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 JSQParser 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

Advisory Board Company

October 2015 – March 2021

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

Associate Development Manager*Advisory Board Company*

September 2013 – June 2015

Chennai, TamilNadu, India

- Implemented centralized, multi-tenant patient data repository with real-time data loading and RESTful endpoints for querying and analytics
- Implemented multi-threaded worker engine for processing SQL Server Service broker queues

Analyst*Barclays Capital*

July 2012 – August 2013

Pune, Maharashtra, India

- Worked on two applications: Meteor (precious and base metal trade capture) and CDRP (commodities risk calculation).
- Implemented web based frontend for the application. Focused on application performance related issues.

Senior Software Engineer*Advisory Board Company*

August 2010 – June 2012

Chennai, TamilNadu, India

- Worked on market-leading analytics software Crimson Continuum Care, enabling hospital-physician collaboration for quality and cost savings.
- Re-wrote measure mapping engine. Improved overall performance by significantly reducing number of database hits

Senior System Engineer*Infosys*

October 2007 – July 2010

Bangalore, Karnataka, India

- Successfully migrated applications running on commercial workflow engine over to WF 3.0.
- Received awards & accolades for introducing new technologies & good software development practices in the team(s).

SKILLS

Languages	: Scala, C#, Java, Python
Frameworks	: Spark, Hive, Apache Iceberg, 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