

# Pawan Mishra

[pawanmishra.com](http://pawanmishra.com) | [LinkedIn](#) | [GitHub](#)

Location: Austin, TX, US

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## BIGDATA & CLOUD SPECIALIST

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Cloud and BigData enthusiast with 16+ years of experience in developing wide range of applications in healthcare domain. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

## HIGHLIGHTS

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- Experienced in designing & building bigdata analytics pipeline in the public cloud
- Led the development, maintenance, and promotion of Spark based 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 initial 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

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### 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 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

*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, TN, 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
- **Skills** - C#, .Net, WPF, SQL Server, PowerShell, xUnit

**Analyst**  
*Barclays Capital*

July 2012 – August 2013  
*Pune, MH, 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.
- **Skills** - C#, Asp.Net, JQuery, Bootstrap, WPF, WIX, SQL Server

**Senior Software Engineer**  
*Advisory Board Company*

August 2010 – June 2012  
*Chennai, TN, 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
- **Skills** - C#, Asp.Net MVC, jQuery, SQL Server, Mercurial, .Net TPL

**Senior System Engineer**  
*Infosys*

October 2007 – July 2010  
*Bangalore, KA, 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** - C#, Asp.Net, Ajax, WF 3.0, jQuery, SQL Server

## TECHNICAL SKILLS

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|-------------------|--|
| <b>Tech Stack</b> | : BigData, AWS, .Net, Java                                       |
| <b>Languages</b>  | : Scala, C#, Java, Python, CSS                                   |
| <b>Frameworks</b> | : Spark, PySpark, Hive, Apache Iceberg, Hadoop, HDFS, Databricks |
| <b>Databases</b>  | : PostgreSQL, Dynamodb, SQL Server, Oracle                       |
| <b>Dev Tools</b>  | : Git, Sonar, Maven, Jenkins                                     |

## EDUCATION

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

Chennai, TN, India  
May 2003 – May 2007