Pawan MISHRA

in linkedin.com/in/rkpawan 🔗 pawanmishra.github.io
📱 +1 737-202-7676 @ rk.pawan@gmail.com 📍 Austin, TX USA

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

☰ COMPETENCIES

Programming Languages	Scala, C#, Java, Python
Tools & Tech Stack	BigData, AWS, .Net, Java, Jenkins, Maven, Git, Sonar
Frameworks	Spark, PySpark, Hive, Apache Iceberg, Hadoop, HDFS, Databricks

❝ HIGHLIGHTS

- ❯ 7+ years in big data and cloud, 6+ years leading software development teams
- ❯ 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
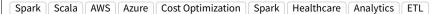
💼 PROFESSIONAL EXPERIENCE

Present
Nov 2021

Director Of Engineering, Optum, Austin
Leading OptumInsight's provider engineering data platform teams, building platform components to minimize client implementations.
- ❯ Overseeing an AWS account with an annual spend of more than 1.5 million dollars
- ❯ Acting as Solution Architect for OptumInsight's Azure based analytics offering called Enterprise Intelligence Platform(EIP)
- ❯ Initiated multiple cloud-oriented modernization efforts across applications
- ❯ Found and repurposed open source tool rabbit-in-a-hat for efficient domain mapping and etl authoring
- ❯ Implemented low-code etl authroing framework using SQL & Spark
- ❯ Prioritized cloud cost optimization, saving 1+ million annually
- ❯ Lead product roadmap, cloud cost, resource allocation, and project assignment related activities

`Spark` `Scala` `AWS` `Azure` `Cost Optimization` `Spark` `Healthcare` `Analytics` `ETL`

Nov 2021
March 2018

Sr. Mgr. Data Engineering, Optum, Austin
Lead the platform foundation team and successfully migrated OADW data pipeline from Oracle to AWS.
- ❯ Designed and implemented multiple Spark based libraries(SDL, dfParser, data-etl, etc.) that accelerated the cloud migration
- ❯ Implemented JSQLParser based library for converting SQL schema from one dialect to another
- ❯ Implemented Spark based lighweight but highly efficient data importer library
- ❯ Decoupled application development from schema management by introducing schema-as-contract pattern
- ❯ Architected the OADW's AWS data pipeline architecture
- ❯ Introduced multiple application development and production release related processes
- ❯ Optimized ETLs, reducing build time from days to hours
- ❯ Implemented measures like Immunization Compliance, Encounter Grouping, Provider Mastering, etc. in Spark

`Scala` `Python` `Spark` `Hive` `Oracle` `Hadoop` `Maven` `Jenkins` `HDP` `AWS` `SNS` `SQS` `Lambda` `StepFunctions` `Athena` `Glue` `Terraform`

March 2018 **October 2015**	**Senior Software Engineer, The Advisory Board Company, Austin** Big Data Platform(**BDP**) is The Advisory Board's first BigData & AWS based data ingestion pipeline. The platform enabled other product teams to build their enrichments against the ingested data. ➤ 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 enrichments Scala · Java · Spark · Hive · Postgres · S3 · SQS · SNS · StepFunctions · Lambda · CloudFormation · EC2 · VPC · EMR · Zeppelin
June 2015 **Sep 2013**	**Associate Development Manager, The Advisory Board Company, Chennai** PDR is a centralized, multi-tenant patient data repository with real-time data loading and RESTful end-points for querying and analytics ➤ Used T4 templates for automated generation of .Net code from XML files ➤ Implemented multi-threaded worker engine for processing SQL Server Service broker queues C# · SQL Server · WPF · Asp.Net WebApi · Rx .Net · PowerShell · xUnit · Ninject
August 2013 **July 2012**	**Analyst, Barclays Capital, Pune** 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. C# · Asp.Net · jQuery · Bootstrap · WPF · WIX · SQL Server
June 2012 **August 2010**	**Senior Software Engineer, The Advisory Board Company, Chennai** 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 ➤ Implemented TPL based in-memory measure calculation engine called Insight C# · Asp.Net MVC · jQuery · SQL Server · Mercurial · .Net TPL
July 2010 **October 2007**	**Senior System Engineer, Infosys Technologies Ltd., Bangalore** ➤ 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). C# · Asp.Net · Ajax · WF 3.0 · jQuery · SQL Server

🎓 EDUCATION

2003 - 2007	B-Tech Computer Science from Dr. MGR Deemed University, Chennai. Gold medalist with 9.2 CGPA.