

Pawan Mishra

rk.pawan@gmail.com/+1-7372027676

pawanmishra.github.io

Software developer with **10+** years of experience in developing wide range of applications in healthcare domain.

Skills	Scala	Spark	Java	C#
	Asp.Net	AWS	SQL Server	Postgresql
	Hadoop	Hive	Data Structure	Algorithms
Experience	Advisory Board Company (July 2010 - June 2012 September-2013 - present)			
	Barclays Capital, Pune (July-2012 - August-2013)			
	Infosys Private Limited, Bangalore (Oct-2007 – August-2010)			

The Advisory Board Company

DataLake

Oct 2016 – Present |Austin

Apache Spark & AWS based ABCO's proprietary large scale centralized data repository.

Contribution

- Spark & Scala based application development
- Implementation of ABCO's proprietary measure calculations in Spark
- Implemented support for running 3M grouper in data lake
- SNS, SQS & Step Functions based orchestration pipelines
- Member setup orchestration using AWS Step Functions
- Implemented SQS queue consumers & lambda functions in python

Xede

Sep 2014 – Oct 2016 |Chennai & Austin

Framework for processing large amount of clinical & real-time ADT HL7 feeds. Originally in Java later migrated on to Spark Stack.

Contribution

- Migration of SQL Server based pipeline onto AWS & Spark stack
- Re-writing T-SQL transformations in spark sql
- Implemented highly concurrent data loaders in Java
- Implemented RxJava & Kafka based data pipeline as POC

Patient Data Repository (PDR)

Sep 2013 – Aug 2014 |Chennai

PDR is a centralized large scale multi-tenant patient's data repository. It supports real-time data loading facilities, restful api based data querying and other patient centric analytics functionalities.

Contribution

- Queueing architecture implementation using SQL Server Service Broker queues
- Automated code generation via T4 templates
- Built WPF based front end for the application
- Restful service implementation using Asp.Net Web Api
- PowerShell scripting for Web Api testing, application deployment & configuration
- Rx based API for streaming large datasets
- Multi-threaded worker engine for processing SQL Server Service broker queues
- Extensive unit & integration testing using xUnit and Ninject DI container
- Code reviews, task estimation & breakdown, team management

Crimson Continuum of Care (CCC)

Aug 2010 – Jun 2012 | Chennai

CCC is a market leading analytics software that offers severity-adjusted performance profiles, enabling the hospital–physician collaboration needed to advance quality goals and secure cost savings. It is being used by over 200+ large hospital systems in US.

Contribution

- Implemented TPL based in-memory measure calculation engine called Insight
- Re-wrote measure mapping engine & significantly reduced number of database hits
- Used Sql Server Trace & other optimization techniques for improving SQL queries
- Re-architected PDF reporting module to support unlimited number of reports
- Part of products Architecture Review committee

Barclays Capital

Meteor & CDRP

Jul 2012 – Aug 2013 | Pune

Meteor is a trade capture tool used for precious and base metal trading. It interacts with other trade processing components like LME, OpenLink, Prospect etc. It's a desktop based application built on top of WPF platform. **CDRP** is a commodities specific in-house developed risk calculation engine used for calculating risk of vanilla and exotic trades.

Contribution

- Development & functional testing of downstream feeds
- Creating application packages using WIX
- Level 3 application support for various trade processing applications
- WPF & Asp.Net based application development

Infosys

Buzz & IMAP

Oct 2007 – Aug 2010 | Bangalore

Buzz is a collaboration tool built on top of SharePoint platform. It consolidates functionalities like file sharing, chat, feed processing, email integration etc. **IMAP** (Infosys Modular Account Payable) is an invoice processing application built on top of Skelta BPM framework.

Contribution

- Encouraged & introduced new technologies & toolkits to the team
- Single handedly built web based application called *Vendor Portal* using .Net, jQuery, Ajax & ADC controls
- Replaced commercial workflow engine with WF 3.0 in Vendor Portal
- Implemented WPF based modular plug & play architecture in Buzz
- Received awards & recognition for implementation of Vendor Portal application

Education

B-Tech (Honours) with gold medal in Computer Science from Dr. MGR Deemed University, Chennai with **9.2 CGPA** (2003-2007).

Other

Part of ABCO's **IIT Mumbai & Rice University** interview panel
Interviewed more than 400+ candidates in ABCO & Barclays combined
Personal Github repository: <https://github.com/pawanmishra/>
Address: 12610 Riata Trace Pkwy, Apt 637 Austin 78727 Texas