

# Pawan Mishra

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pawanmishra.github.io

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

<b>Skills</b>	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

### DataHub

Sep 2014 –Present | Austin & Chennai

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

**Contribution** Spark & Scala based application development  
Migration of SQL Server based pipeline onto AWS & Spark stack  
Implementation of ABCO's propriety measure calculations in Spark  
Implemented support for running 3M grouper in data lake  
SNS, SQS & Step Functions based data ingestion pipelines  
Orchestration of member setup using AWS Step Functions  
Implemented SQS queue consumers & lambda functions in python  
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

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### 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

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### 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

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

## Other

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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/>  
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