Dhananjay Kumar Upadhyay
Technical Architect | Data Architect
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Bengaluru, Bharat (India)

Innovative, task-driven and result-oriented professional with 21+ years of experience in application development and business intelligence across diverse domains and industries. Involved in client interaction, solution architecture, development and support of enterprise-level solutions, team building and upskilling strategies.

ORGANIZATIONS

- Piping Rock India, Sr. Software Engineer (*November 2022 – April 2023*)
- Synergy Machines LLC, Technical Architect (*October 2020 – November 2022*)
- Freelance Coach & Consultant (Consulting & Training Services) (*July 2009 - October 2020*)
- Sumeru Software Solutions, Solutions Architect (*July 2007 - July 2009*)
- TACT Global, formerly known as Suntech Data Systems, Tech Lead (*January 2005 - July 2017*)
- Amadeus India, Senior Software Engineer (*March 2004 - July 2004*)
- Boolean Software Consultancy, Senior Software Engineer (*August 2002 - February 2004*)
- Duratech Solutions, Software Engineer (*January 2001 - Aug 2002*)

TECHNICAL SKILLS

- Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP)
- Angular, ReactJS, TypeScript, Node.js, jQuery, JavaScript, RESTful API, GraphQL
- Azure Data Factory, Azure Synapse Analytics, Azure Databricks, Azure Storage, Azure Data Lake, Azure HDInsight, Azure SQL Database, Python, Scala, R, PySpark, Apache Spark, Apache Kafka, Apache Beam, BigData, GCP BigQuery, Dataflow, Airflow, Power BI, SSIS, SSRS, SSAS, Data Warehousing
- Microsoft SQL Server, PostgreSQL, MongoDB, Azure Cosmos DB
- .NET Core, .NET Framework, Visual C#.NET, ASP.NET Core MVC, ASP.NET Core Web API, ASP.NET Web Forms, Entity Framework Core, Dapper, LINQ, ADO.NET
- Microservices, Docker, Kubernetes, SOLID Principle, Domain Driven Design (DDD), Test Driven Development (TDD), .NET Software Design Patterns, NUnit, xUnit, MSTest, Coded UI
- Agile, Scrum Principles, Git & GitHub, Azure DevOps, Bitbucket, Jira, Jenkins, Gitlab

PROFESSIONAL CERTIFICATE

1. Microsoft Certified Trainer (MCT) since 2012
2. Microsoft Certified Solutions Associate (MCSA) [SQL Server 2014 Track]
3. 70-486: Developing ASP.NET MVC 4 Web Applications
4. Microsoft Certified Professional Developer (MCPD)
5. Microsoft Certified Technology Specialist (MCITP)
6. Microsoft Certified Technology Specialist (MCTS)
7. Microsoft Certified Solution Developer .NET (MCSD.NET)
8. Microsoft Certified Application Developer .NET (MCAD.NET)

9. Microsoft Certified Professional (MCP)
10. Global Net NIIT (GNIIT)

EDUCATIONAL QUALIFICATION

- Bachelor of Arts- B. A. from University of Delhi

WORK EXPERIENCE

Project Title : PR Warehouse Management System [November 2022 – April 2023]
Client : Piping Rock Health Products, USA

Roles and Responsibilities : Technical Architect and Team Lead
Technical Specifications : C# .NET, ASP.NET MVC, ASP.NET Web API, jQuery, React.js, SQL Server Reporting Services, MS SQL Server, Oracle NetSuite, Git, Octopus

Description : The project handles day-to-day handling of warehouse management activities. The system handles pick and pack, packaging and shipping of the orders received as wholesale/bulk from various sources such as dealers, Amazon Online USA, etc. The Pick & Pack and Packaging modules are of paramount importance and handled using handheld devices. The Shipping module contains handling of all the packaged orders, combining them together based on same destination ZIP code and weather conditions, etc. We recently reintroduced packaging module using React.js as UI.

The challenge with the project is the streaming Pick & Pack, Auto Consolidation of orders for particular customer, ensuring that we miss no order and deliver it on time all over the world.

I played Technical Architect and Team Lead role as Sr. Software Engineer, with the responsibilities of designing UI modules, RESTful APIs, maintaining repositories, code review, guiding team members, client interactions, and ensuring on-time project delivery.

Project Title : Podium Property Insights [Apr 2021 – October 2022]
Client : Lendlease Podium (www.lendleasepodium.com)

Roles and Responsibilities : Data Architect & Technical Architect
Technical Specifications : Google Cloud, BigQuery, PostgreSQL, C# 7.0, Core Java, Apache Beam, Airflow, React.js, Google Kubernetes Engines, Agile, Scrum, Jira, Bigbucket, Gitlab, Confluence

Description : The project involves collection of sensors and IoT data from the buildings using Apache Beam streaming pipelines and ingest into BigData store i.e., BigQuery on Google Cloud platform. Having received the data, another set of Apache Beam pipelines process and analyze the data, create insights and ingest into another database called as Metrics hosted by PostgreSQL database. A

set of RESTful APIs developed using .NET technologies, pull the data from Metrics database and provide the same to the UI developed using React.js.

The challenge with the project is the streaming events collection, ensuring that we miss no events generated by the devices, even if available in chunks with varied time slots.

I am playing Data Architect and Technical Architect role, with the responsibilities of designing RESTful APIs, maintaining repositories, code review, guiding team members and ensuring on-time project delivery.

Project Title : Lendlease Utility Management [Oct 2020 – Mar 2021]
Client : Lendlease Podium (www.lendleasepodium.com)

Roles and Responsibilities : Data Architect & Technical Architect
Technical Specifications : React.js, C# 6.0, Microsoft SQL Server 2019, SQL Server Integration Services, ASP.NET Web API, Google Kubernetes Engines, Agile, Scrum, Jira, Bigbucket, Confluence

Description : The project involves processing of electricity consumption data in the form of .CSV file provided by the Australian energy agency. The electricity consumption meter data is consumed by the SSIS pipelines on daily basis. At the end of the monthly billing cycle, the invoice data is automatically prepared and emailed to the customers on their email address. In addition, the customer also has the flexibility to open an account online and monitor their day-to-day electricity consumption. The RESTful APIs developed using .NET technologies fetch the data from SQL Server 2019 database and provide the same to the UI developed using React.js.

The challenge with the project is to ensure daily electricity consumption is available to the customer online with 100% accuracy.

I played Data Architect and Technical Architect role, with the responsibilities of designing RESTful APIs, maintaining repositories, code review, guiding team members and ensuring on-time project delivery.

Project Title : Tool Performance Reporter [Jan 2018 – Apr 2018]
Client : Kennametal Shared Services, India (www.kennametal.com)

Roles and Responsibilities : Azure/.NET Technical Architect,
Technical Specifications : Azure, C# 7.0, Visual Studio 2017, VSTS, Azure SQL Database

Description : The project involves uploading of tool performance data in the form of reports. It has got 2 parts: 1) Desktop client and 2) Web client. The desktop client is used by the employees on the field and it works in offline mode as well. While the Web client works at the factories where the tool testing happens.

The challenge to execute this project is to create the offline reports, which are very heavy and upload it quickly. The desktop part works with client certificate authentication and https and connects to the ASP.NET Web API service and upload the data into the SQL Server database. This data is used to analyze the performance of the tools being used by the clients using Power BI reports.

In addition, my additional responsibility was to redefine the .NET team delivery process and introduce the Code Review process.

Project Title : Customer Grievance Redressal Analysis [Apr 2017 – Sep 2017]
Client : The Bahrain Petroleum Company, India

Roles and Responsibilities : MSBI Architect on Azure Platform
Technical Specifications : Azure Data Factory, Visual Studio 2015, Team Foundation Server 2015

Description : The project involves importing of raw data about customers' grievances from heterogeneous data sources such as SQL Server, MySQL, CSV file, Excel file, PDF document, and at times image files as well. The data are pulled out of these sources and are dumped into a staging database. Eventually, the data from staging server is dumped into a data warehouse for further analysis and reporting.

The reason to opt for the Azure Data Factory instead of SQL Server Integration Services is the client data is already being saved on the Azure Storage since longer. And, the client prefers to have all processes running on the cloud platform as well. Hence, the Azure Data Factory!

The challenge to execute this project is to read the PDF and Image documents to extract data and ensure proper error logging with the Azure Data Factory, which has got very little to offer on this aspect. The pipeline optimization is also a very challenging task at this point of time, which we have been trying to address using Azure Batch Service.

Project Title : Supply Chain Analysis & Reporting [Dec 2016 – Apr 2017]
Client : Steelwedge Technologies, India (now part of www.e2open.com)

Roles and Responsibilities : MSBI/Database Architect
Technical Specifications : SQL Server 2014, SQL Server 2014 Integration Services, SQL Server 2014 Reporting Services, Team Foundation Server 2013

Description : The project involves import/export of data about supply chain for various clients. The data are being pulled out of various and heterogeneous sources like SQL Server, MySQL, CSV files as well as Excel files. We have designed around 40 packages (.dtsx), which execute the data import process into the data warehouse directly, instead of dumping into a staging database. The package optimization has been the biggest challenge in the project for our team.

We have implemented the SSIS Design Patterns in order to provide a solid SSIS Framework for Error Logging and Monitoring as well as robust testing.

All the packages are fully configurable using the Environment settings and are deployed accordingly, hence quite easy to change the variables/parameters value during runtime.

We have published around 200 reports, hitting either directly to the staging data server or the processed SSAS Cubes. Though, a separate team has worked up on Cube designing and implementation. All reports have been designed using SQL Server 2014 Reporting Services and deployed with the Scale-Out strategy.

We have used Team Foundation Server 2013 as a source control tool for the project.

Project Title : NAIS Reports [May 2015 – Dec 2015]
Client : National Association of Independent Schools, USA (www.nais.org)

Roles and Responsibilities : Business Intelligence Architect
Technical Specifications : SQL Server 2014, SQL Server 2014 Analysis Services/Reporting Services/Integration Services, RedGate Tools

Description : This system provides the statistical details in the form of reports extracting data from heterogeneous sources, dumping into the DW using Integration Services and generating report from OLTP as well as OLAP Cubes. The team had designed and published around 300 reports through this system. The reports fetch data through Stored Procedures and Cubes.

The challenging part of this project was to design the Cubes and using Multidimensional Expressions (MDX) to pull the data from the Cubes.

Project Title : TASAT Intelligence [Jun 2013 – Jul 2014]
Client : Pfizer, Inc., USA

Roles and Responsibilities : Business Intelligence Architect
Technical Specifications : SQL Server 2012 Integration Services

Description : This project involves importing research-oriented data from the SQL Server and Excel files and dump into the data warehouse. We designed around 75 packages to complete the import process. The data volume was huge due to the research activities, the package optimization has been one of the challenging tasks for the team.

The Error Logging and Monitoring has also been properly implemented in order to track the issues down and fix it at the earliest.

The packages have been deployed with Environment settings, making package completely configurable.

MAJOR CLIENTS (TRAINING)

- Accenture India
- Capgemini Consulting India
- Honeywell India Software
- EMC
- DELL
- HCL Technologies
- CGI
- Fidelity
- Ernst & Young
- ABB India
- SAP Ariba
- ANZ Bank
- Babel Systems
- Bapco, Bahrain
- XLCare Information Systems
- Exilant Technologies
- AQ Insights
- Nettpositive
- Novozymes
- Kantar Analytics
- L&T Infotech/Technology Services
- Cognizant Technology Solutions
- Mphasis India
- Wipro
- Siemens Technologies
- Mindtree Ltd.
- Sonata Software
- Unisys
- Bank of America
- Steelwedge Software
- PipingRock India
- NextEdge Software
- Volvo IT India
- AXA Group Solutions
- NuWare Technologies
- Craft Silicon
- Kennametal Shared Services
- Atos Worldline
- Logica

VISA DETAILS

USA – B1/B2 (Valid until Aug 2027)

PERSONAL DETAILS

Date of birth: December 15, 1977

EXPECTED CTC

INR 24 LPA

JOINING PERIOD

Immediate

Dhananjay Kumar Upadhyay
Bengaluru, Karnataka, Bharat (India)