# **Mona Patel**

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**SUMMARY:**

* **10+** years of IT experience in designing, developing, and deploying quality solutions using Java, Microsoft Technologies, Databases and ETL in the domains of Logistics, Election Management, Warehouse and Retail.
* Extensive experience in Extraction, Transformation, and Loading (ETL) data from various data sources into Data Warehouse and Data Marts using MSBI tools and Pentaho.
* Hands of experience with Machine learning algorithms, exploratory data analysis and feature engineering.
* Knowledge of probability and statistics.
* Exposure to implementing machine learning models.
* Strong experience in Relational databases: MS SQL Server and Oracle
* Extensively used SQL and PL/SQL to write Stored Procedures, Functions, Packages, Cursors, Triggers, Views, and Indexes in distributed environment.
* Experience in Agile Development Methodologies and SDLC.
* Participating in application solutions including assisting with planning and architectural design, development, resolution of technical issues, and application rationalization
* Quick learner and a self-starter with ability to coordinate within team as well as work individually.

**TECHNOLOGY STACK**

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| --- | --- |
| **Machine Learning** | R, Python, Simple and Multi Linear Regression, Model Evaluation, Stat Computing, Data Mining, Predictive Modeling, Apache Spark, Regularization, Maximum Likelihood Estimation, Apache Kafka |
| **Visualization Tools** | Tableau |
| **ETL Tools** | SSIS, SSRS, PENTAHO |
| **Databases** | Oracle, MS Sql Server |
| **J2EE Technologies** | Core Java, JSP, Java Beans |
| **J2EE Frameworks** | Spring Boot, Hibernate, REST Web Services, Microservices |
| **.NET Technologies** | ASP.NET, LINQ, WINFORMS, WCF, Web Services, XML |
| **IDE** | RStudio, Microsoft Visual Studio, Eclipse, IntelliJ, PyCharm |
| **Web Servers** | Apache Tomcat 7, IIS |
| **Source Control** | SVN, TFS, VSS, GitHub |
| **Development Tools** | Maven, Tortoise SVN, SOAP UI |
| **Build Server** | Jenkins |

**EDUCATION:**

* **Master of Science in Business Data Analytics, West Virginia University (Aug 2019 – Aug 2021, GPA – 4.0/4.0)**
* Bachelor of Engineering in Computer, VNSGU, India (June 2006)

**ACADEMIC EXPERIENCE:**

# **West Virginia University, USA**

# **Client : Leidos (Capstone Project) June 2021 – Aug 2021**

**Description**: Capstone project was to create a machine learning model and then deploy it in a streaming setting. The model can predict the position of a human based on data that’s received from wearable technology. The data was collected from the in-built accelerometer and gyroscope of a smartphone worn around the waist of participants.

**Responsibilities:**

* Performed exploratory data analysis and feature engineering for both numeric and categorical data types.
* Trained and fine-tuned decision tree, random forest, SVM and multinomial logistic regression in R language.
* Developed an end-to-end streaming pipeline to predict position of the person in real time using Kafka, Spark Structured Streaming, Pyspark and R.
* Load R model in python and predict the streaming data using this model in Python.

**Environment:** R, Python, Apache Kafka, ML predictive modeling, Pyspark

**WORK EXPERIENCE:**

# **IBM, Pune, India May 2015 – Jan 2019**

# **Client: Marriott Vacations WorldWide**

# **Title** : Technical Team Lead/Full Stack Developer

**Description**: Marriott Vacations Worldwide Corporation (together with its subsidiaries, MVWC), focusing on the selling, managing, financing, and renting of vacation ownership products. The company is headquartered in Orlando, Florida & company official website: http://www.mvwc.com.

**Responsibilities:**

* Worked closely with the Business Users to gather requirements.
* Analyzed multiple source systems and based on the business requirements build the transformation rules to extract, transform and load the data in the target systems
* Used SSIS and Pentaho to extract data from different sources (SQL and Oracle) to the staging database.
* Optimized data collection procedures to generate monthly, quarterly, and yearly reports.
* Created PL/SQL stored procedures, triggers, constraints and SQL queries.
* Prepared technical detailed design based on function and technical requirements
* Developed RESTful web-services that can support high-volume transactions.
* Maintain branches during project development. Conduct merge and use Jenkins for building and deploying applications to Tomcat server.
* Involved in preparing the Migration documents and SQL scripts to release the code in UAT, Stage and PROD environments.

**Environment: -** Java, Spring MVC, Oracle 12c, SSIS, SQL Server 2008, Pentaho Kettle, SVN, Jenkins, Apache-tomcat

# **Symphony Teleca Pune, India October 13 – February 2015**

# **Client : DealerTrack**

# **Project**: Dealertrack Finance Solution (https://www.dealertrack.com)

# **Title**: Lead Engineer – Product Development

**Description**: Dealertrack provides web-based software solutions and services that enhance efficiency and profitability for all major segments of the automotive retail industry, including dealers, lenders, third-party retailers, agents, and aftermarket providers. Finance Solutions of DT provides the industry leading auto dealer financial network which gives a unique ability to maximize secure deal flow.

**Responsibilities:**

* Interacting with business owners to gather both functional and technical requirements.
* Involved in providing the estimations for efforts required to produce an end to end solution and lead the technical solution development.
* Managed development team and assisted in developing software framework and applications to meet both existing and future business requirements.
* Instituted PL/SQL changes to stored procedures, functions and triggers.
* Responsible for doing technical assessment for all enhancements and feasibility study for project and enhancements.
* Responsible to troubleshoot and resolve issues in existing application modules.
* Involved in optimizing SQL stored procedures and ETL packages for performance.
* Deliver the product as per released deadlines.

**Environment**: - Visual Studio 2010, C#, SQL Server 2008, TFS, AJAX, SSIS

# **United Parcel Services (UPS) Wayne NJ, USA February 12- August 12**

# **Project**: Appropriation Creation and Controls

# **Title**: Technical Specialist (Sr. Programmer)

**Environment: -** Visual Studio 2010**,** **C#**, SQL Server 2008, Version Manager, AJAX.

# **Perry System Inc., Englewood Cliffs NJ, USA November 09- February 12**

# **Project**: Manhattan Textiles

# **Title**: .NET Programmer

**Environment: -** Visual Studio 2010**,** Web Services, **C#**, SQL Server 2008, SVN, AJAX, XML.

# **Premier Election Solutions, Sacramento CA, USA April 08- October 09**

# **Project**:Voter Registration System (VoterWorks)

# **Title**:Mid-Level Developer

**Environment: -** Visual Studio 2008**,** C#, SQL Server 2008, WCF, N-hibernate, UML, TFS, LINQ, Agile Methodology.

# **Otis Elevators, Bombay (Mumbai) India July 2007 – Oct 2007**

# **Project**:T**-**Order Management System

# **Title**:Mid-Level Developer

# **Environment:** C#, ASP.NET 2.0, HTML, JavaScript, SQL Server 2000, WSDL, SOAP

# **Krish Inc., India July 2006 – May 2007**

# **Project**: **Online Shopping Application and**

# **Title**:Developer

# **Environment**: C#, ASP.NET 2.0, HTML, JavaScript, SQL Server 2000