

# MANSI PANDYA

Boston, MA | 857-891-7218 | [pandya.ma@northeastern.edu](mailto:pandya.ma@northeastern.edu) | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## EDUCATION

Master of Science - Information Systems | Northeastern University, Boston, MA  
Bachelor of Engineering - Computer Engineering | Nirma University, Ahmedabad, India

August 2020  
May 2018

## CERTIFICATION

- AWS Certified Solutions Architect – Associate
- Tableau Data Analyst

## WORK EXPERIENCE

### Software Quality Assurance Analyst | Casa Systems Inc, Andover, MA

June 2019 - December 2019

- Worked with clients to collect information regarding config details of small cells and design the low-level documents for data architecture
- Maintained the data mart for structured and unstructured data by using MariaDB database and handled unstructured data using Python
- Wrote and executed SQL queries to perform the back-end testing in the driver information database
- Automated the functional and system level testing in Python using Selenium WebDriver that increased accuracy by 30%
- Implemented test plan designing, conducted Functional testing, Regression testing, Integration testing and Data validation

### Data Analyst | DEV Information Technology Limited, Gujarat, India

January 2018 - June 2018

- Designed an android application's database schema using SQLite following strict data governance standards
- Optimized SQL queries to improve performance from several hours of down time to minutes by integrating the applications database to a cloud database (Firebase Analytics)
- Integrated Firebase analytics to show graphical visualizations to users about their categorized monthly and weekly expenses
- Prepared standard and ad-hoc analyses of Customer Reviews for quarterly business reviews, recruitment strategy development, and process improvements using Tableau Dashboards
- Developed crucial Functional Design Documents, detailed use case specifications, presentations and User Stories using JIRA

### Data Analyst | DEV Information Technology Limited, Gujarat, India

May 2017 - July 2017

- Key participant in all phases of the SDLC right from requirements gathering to translate strategy into an operational plan
- Built a website for a client that generates examination papers from existing pool of questions available on MSSQL
- Gathered and transformed various records coming from multiple sources and developed SQL queries to store desired parameters in the database
- Performed A/B testing for code change requests thereby reducing the defect rate by 40%
- Created tables and relationship between them, implemented CRUD operations using Gii framework for specified data model

## PROJECTS

### Retail Data Warehouse (SQL, SSIS, Talend, Power BI, Tableau, ER/Studio, Alteryx)

- Designed a data warehouse using ER/Studio, pipelined and integrated huge dataset of 40 million records from multiple sources (CSV, MySQL, MS SQL Server, Oracle) using ETL techniques on Talend, SSIS and Alteryx
- Executed Slowly Changing Dimensions to maintain historical records, Error Handling, and Currency Conversion
- Devised various performance tuning techniques, thereby resulting in a total integration time of 22 minutes
- Built interactive dashboards to analyze retail sales and business insights using Tableau and Power BI

### Global Terrorism Analysis (Python, Machine Learning, Tableau interactive visualizations)

- Utilized Python libraries such as Pandas, NumPy, SciPy, Seaborn, Matplotlib, Scikit-learn to validate and manipulate data
- Implemented Exploratory Data Analysis, NLP techniques, and Machine Learning algorithms like Principal Component Analysis, Decision Trees, and Random Forests to foretell future impact and trend
- Predicted the successfulness of the terrorist attacks with an accuracy of 86% and generated visualizations

### REST API Prototype model (STS, Postman, Redis)

- Built a Spring Boot REST API to parse a given JSON schema and save the schema in a Redis key value store
- Secured the REST API with OAuth, added Elasticsearch for data indexing, Kibana for data visualization and querying, Etag for caching and conditional requests

### AIRBNB Booking and Rental Database (MySQL Workbench, Microsoft SQL Server)

- Modeled Entity Relationship for hotel booking which is a hospitality website that enables people to rent houses
- Normalized database to 3NF and implemented Views, Stored Procedures, Functions, Triggers, User access, Privileges, Transactions, Sub Queries, Joins, Backup and encryption of critical data such as passwords using MD5

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Python, R, Java, SQL
<b>Databases:</b>	MySQL, Microsoft SQL Server/ T-SQL, Oracle 11g, PostgreSQL, NoSQL
<b>BI/ETL:</b>	Talend, SSIS, SSAS, SSRS, Alteryx, ER/Studio, Toad Data Modeler
<b>Data Visualization:</b>	Tableau, Power BI, QlikView, Looker, Microsoft Excel (Pivot Tables, Pivot Charts, V lookups)
<b>Machine Learning:</b>	Regression, Classification, Decision Trees, Random Forest, KNN, K-means clustering, PCA
<b>Big Data/Cloud:</b>	MongoDB, Hadoop, MapReduce, Spark, Hive, Pig, AWS (RDS, DynamoDB, S3, EC2), Docker