

MIHIR PATEL

Portfolio

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Experience

Marlabs, NJ

07/2023 – Present

Software Developer

- Revamped website with dynamic features using Angular, driving a 35% surge in user engagement
- Performed advanced analysis on datasets, providing useful insights for decision-making on customer retention
- Worked on Test-Driven Development (TDD) methodologies, crafting thorough test cases and conducting rigorous testing, resulting in a notable 45% reduction in post-release software defects

Blackstone Technologies LLC, Ohio

02/2023 – 07/2023

Software Developer

- Documented the API's and conducted end-points testing
- Implemented unit tests using Pytest to ensure the functionality and reliability of critical modules
- Worked on code refactoring and documentation leading to clean, readable and meaningful code

Projects

SplitIt

09/2023 - Present

Technologies Used: Angular, Express.js, Node.js, MongoDB, JWT

- Developed an expense-splitting application for financial management among multiple users within a group setting
- Implemented balance settlement, transaction recording, JWT Authentication, Route guards, and diverse expense splitting methods like equal, unequal, percentages, and share splits
- Enhanced user experience by adding features like search, date filter, pagination, and streamlined invitation mechanism via mail using Send Grid resulting in 30% increase in traffic and 40% increase in new user registration

Twitter Data Analysis - FIFA 2022

09/2022 - 12/2022

Technologies Used: Spark, NLP, ML algorithms

- Crawled 14GB tweets with SNScrape on AWS, then filtered and assigned sentiment using TextBlob
- Pipelined stages like tokenizing, finding TF-IDF, and fitting it in the Logistic Regression model that gave 89% accuracy
- Tested SPARK queries runtime on various sizes of data and generated reports for analysis

Burnol Search Engine

01/2022 - 04/2022

Technologies Used: Hadoop, MapReduce

- Developed multi-threaded crawler that extracts data of Wikipedia pages and performs MapReduce enabling seamless indexing of web pages, ensuring optimal search performance.
- Utilized NoSQL database MongoDB to store the indexed data and Hadoop to efficiently process search queries to display the top 10 ranked web pages matched with queries.

NYC Road Collision Analysis

09/2022 - 12/2022

Technologies Used: Python, GeoPandas, ArcGIS, GeoSpatial dataset

- Performed Spatio-Temporal Analysis of NYC Collision Data to garner insights and interesting trends
- Utilized ArcGIS reverse geocode for filling out 20% of missing data and determined collision hotspots
- Used GeoPandas and Folium library for interactive visualization of the GeoSpatial data

Technical Skills

Languages and Frameworks: Python, Angular, React, JavaScript, Java, Django, Node.js, Express.js, NgRx, Tailwind

Data Management and Cloud Services: AWS, SQL, NoSQL, Hadoop, Spark, MySQL, MongoDB, Redis

Tools: Git, Nginx, Gulp, Babel, Webpack, Docker, Jenkins, Agile, Scrum, Jasmine, Karma, Pytest, Highcharts

ML and Visualization: Python, Pandas, NumPy, Scikit, TensorFlow, PowerBI, GeoPandas, Folium

Education

University of California, Riverside - Masters in Computer Science

09/2021 – 12/2022

Gujarat Technological University, India - B.Tech in Computer Engineering

08/2017 – 06/2021