MIHIR PATEL

[Portfolio](#)

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Experience

Marlabs, NJ   07/2023 – 06/2024
Software Developer

- Revamped website with dynamic features using Angular, driving a 35% surge in user engagement
- Employed Highcharts graphs, Gulp automation, and a modular-based structure to enhance loading times
- 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

- Elevated user experience by revamping the UI and optimizing form structures using Angular Reactive forms, resulting in heightened user engagement and improved data accuracy
- Implemented unit tests using Mocha and Chai to ensure the functionality and reliability of critical components
- Conducted thorough code reviews and implemented best practices to maintain code quality and foster a culture of continuous improvement within the development team

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.

Parking Space Management   01/2021 - 06/2021
Technologies Used: OpenCV, Tesseract, Python, Flask

- Spearheaded the development of a system to detect vacant parking spots by leveraging OpenCV and implemented an efficient data management strategy by utilizing MySQL to store parking space information
- Acquired license number using OCR and real-time display of empty spots on a web page using Flask framework
- Reduced overall cost by 70% by eliminating the need for built-in ANPR cameras

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 the Cumberlands, Kentucky - Masters in Business Administration	06/2024 – Present
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