Dev Patel

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EDUCATION

Maharaja Sayajirao University of Baroda — Gujarat, IN
Bachelors of Computer Applications(Honors) — *07/2019 - 05/2022*
Coursework: Computer Networks, Data Structures & Algorithms, Discrete Mathematics, DBMS, Software Engineering, Java Programming, Web Development, Python, Software Testing, SQL, OOP, EDA, OS

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, SQL, C++, HTML, CSS
Tools/Technologies: React.js, Next.js, Node.js, Socket.io, WebRTC, REST, Apache(Kafka, Spark, Hadoop), Docker, Git, AWS(S3, EC2, Lambda, VPC, Glue ETL, Load Balancer), Pandas, Numpy, Git
Databases: MySQL Workbench, Redis, MongoDB, PostgreSQL

EXPERIENCE

Software Engineer — 12/2022 – Present
Frodoe LLC — *Cranbury, NJ*
- Architected an **scalable internal communication app** using web sockets and pub-sub architecture, ensuring seamless and secure messaging across devices.
- Integrated Apache Kafka for streamlined chat data streaming, **minimizing query load and downtime**, while leveraging MySQL Workbench for resilient storage.
- Deployed the application on AWS VPC, implementing multi-level security measures and regulations, and **managed traffic and external communication** using NAT and Internet gateways.

Software Engineer Trainee — 07/2022 – 11/2022
Bhagat Engineers — *Vadodara, GJ*
- Developed a robust data cleansing and processing solution using **Databricks and PySpark** to handle large-scale data from diverse channels, ensuring data integrity and reliability.
- Created **sales data visualizations** to support future business planning & requirements, enabling strategic decision-making.
- Spearheaded the generation of unique **Key Performance Indicators (KPIs)** to measure business scale and performance, resulting in a **18% quarter-on-quarter revenue growth** for the company.

Software Engineer Trainee — 03/2022 – 06/2022
Paul Mason Consulting — *Vadodara, GJ*
- **Oversaw 150+ web portals** streaming real-time data, ensuring optimal performance and data integrity.
- Contributed to a key **migration of servers** to AWS, for better maintenance and monitoring.
- Leveraged AWS for **server monitoring, log analysis, and live anomaly detection** using time-series graphs

PROJECTS

Chat Application | *Node.js, Apache Kafka, Socket.io, Redis, Next.js, PostgreSQL* — 11/2023 – 12/2023
- Designed a **highly-scalable app** for **seamless** & **secure communication** using Socket.io, Node.js, Turborepo and Redis
- Implemented Apache Kafka for **efficient chat data streaming, reducing query load** and **downtime** while leveraging PostgreSQL for robust storage.
- Utilized Socket.io, Node.js framework and Redis servers for **cross-server, bidirectional communication.**

MarketStream Analytics Engine | *Python, Apache Kafka, AWS(S3, EC2, Athena)* — 06/2023 – 10/2023
- Engineered a **data pipeline** with Python, Kafka, and AWS, streamlining the analysis of data for future implementations.
- **Optimized data ingestion** and **transformation processes**, facilitating analysis as per business requirements.
- Delivered key outcomes in financial market analysis, enhancing data-driven strategy and operational efficiency.

CERTIFICATIONS

Software Engineering Virtual Experience | *JPMorgan Chase & Co.* — 06/2023

AWS Certified Machine Learning Specialty 2023 (MLS-C01) | *Udemy* — 01/2023 – 05/2023