

Dev Patel

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TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript

Data Engineering and Analytics: Apache Spark, Kafka, PostgreSQL, MySQL, Pandas, Numpy, Hadoop, ETL, Data Warehousing, Batch & Real-time processing, Data Modeling

Cloud & Tools: RestAPI, FastAPI, Postman, AWS (S3, EC2, EMR, Lambda, Athena), Google Cloud Storage, Redis, DataBricks, Jupyter, WebSockets, Next.js, Git, Jira

EXPERIENCE

Data Engineer

11/2024 – 03/2025

Flow AI

Austin, Texas (Remote)

- **Led architecture and optimization of a scalable data ingestion pipeline, reducing raw data crawling time by 45%** using OS-level pagination and batch API requests to support customer engagement analytics.
- **Automated end-to-end processing, reducing turnaround time by 90%** and supporting business SLAs for real-time insights.
- **Reviewed and optimized team members' ETL pipeline and system design**, enforcing best practices in software engineering, data pipeline design, and distributed system architecture,

Software Engineer

12/2022 – 05/2024

Frodoe LLC

Cranbury, NJ

- Built a scalable real-time messaging platform using WebSockets and Pub-Sub architecture, **supporting 10K+ concurrent users**
- Integrated Apache Kafka for high-throughput data streaming, **reducing query load by 35% and downtime by 50%**, with SQL-backed fault-tolerant storage.

Software Engineer

07/2022 – 11/2022

Bhagat Engineers

Vadodara, GJ

- Built a scalable data processing pipeline using PySpark, ensuring high data integrity and reliability across diverse sources.
- Designed unique **KPIs** to track business performance, driving an **18% QoQ** revenue growth through data analysis

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.
- Created an end-to-end automated pipeline for extracting, monitoring and analyzing data using client's portals.

PROJECTS

Scalable Real-Time Communication Platform Logic | *Node.js, Apache Kafka, Socket.io, Redis, PostgreSQL*

- 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*

- 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.

EDUCATION

Johns Hopkins University

Baltimore, MD (Remote)

MS, Computer Science

2024 - Present

Concentration: Data Science and Cloud Computing

Maharaja Sayajirao University of Baroda

Gujarat, IN

Bachelors of Computer Applications(Honors)

2022

CERTIFICATIONS

Bloomberg Market Concepts | *Bloomberg*

03/2023 - Present

Software Engineering Virtual Experience | *JPMorgan Chase & Co.*

06/2023

AWS Certified Machine Learning Specialty 2023 (MLS-C01) | *Udemy*

01/2023 – 05/2023