

SIDRA KHAN

Software Engineer

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SUMMARY

Results-driven professional with over 2.5 years of experience in software engineering and technical support, expert in SQL expertise and database management. My key achievements include enhancing client satisfaction by 15% through comprehensive client support at a payment processing company, managing financial transaction systems with a monthly volume exceeding \$20M, and improving operational efficiency by 30% by resolving 250 configuration issues. Seeking a Data Engineer position at [company name], where I bring my software engineering and database management skills to support your mission of leveraging data-driven insights and innovative solutions.

EXPERIENCE

Software Engineer

i2c Inc

03/2023 - Present Lahore, Pakistan

A company specializing in payment processing solutions, providing services in transaction processing and API integrations

- Generated strategic business reports (MCP, SSRP, QMR) from transaction data
- Engineered and supported API-based financial transaction systems (ACH, SWIFT, SEPA, Mastercard/Visa) managing over \$20M in monthly volume.
- Integrated and optimized RESTful APIs to enhance system reliability and data communication across multiple platforms.
- Built interactive Power BI dashboards and backend data pipelines to visualize real-time transaction metrics from millions of records.
- Improved transaction efficiency by 15% through automation, API performance tuning, and backend optimization.
- Collaborated with cross-functional engineering teams to ensure seamless integration.
- Contributed to tokenization and security projects for Mastercard, enhancing fraud prevention and data protection.
- Conducted debugging, deployment, and root-cause analysis across production and development environments, ensuring high system uptime and stability.

Software Engineering Intern (ROR & Frontend)

Devsinc

12/2022 - 02/2023 Lahore, Pakistan

A web and mobile application development company focused on delivering innovative tech solutions

- Developed and optimized front-end components using JavaScript, HTML5, CSS3, and React.js, improving page load time by 25%.
- Assisted in building RESTful APIs and backend logic using Ruby on Rails, integrating it with responsive front-end features.
- Participated in Agile sprints, performed QA testing, and implemented UI enhancements to improve user experience.
- Collaborated on the design and development of reusable components, preparing for scalable full-stack solutions using MERN principles.

Computer Lab In charge & Computer Teacher

Fazaia Intermediate College, LHR

12/2020 - 03/2023 Lahore, Pakistan

Offered quality education and digital literacy.

- Boosted student engagement by 75% by organizing 3 coding competitions for different grade levels.
- Taught programming basics, internet safety, and software tools to over 250 students each term.
- Increased digital literacy by 20% by organizing 15 technology activities and developing targeted educational programs.
- Enhanced instructional quality for 35 teachers by providing digital tools training across the school.

EDUCATION

BS Computer Science

Punjab University Old Campus

10/2016 - 09/2020 Lahore, Pakistan

SKILLS

| | | | | | | | | | | | |
|-----------------|-------------|---------------|-------------|--------------------|----------------|---------------------|--------------|----------|---------|-------|--------|
| MongoDB | Postgre SQL | Next Js | Java Script | CSS/HTML/Bootstrap | | Integration Testing | | Informix | | | |
| JIRA/Confluence | | OTRS | KYC | API integration | | Microsoft Power BI | | MVC | Python | NumPy | GitHub |
| RDBMS | BigQuery | Data Cleaning | | XML/JSON | REST API | POSTMAN | Soap | SQL | Tableau | | |
| MVC Frameworks | | Java/C# | Oracle | Dynatrace | Apache Airflow | UAT | Google Cloud | | NoSQL | | |

CERTIFICATION

Become A Data Analyst -40Hrs Course LinkedIn Learning(2024)

Professional Google Cloud Engineer (In Progress)

Tableau Essential Training – LinkedIn Learning

Power BI – LinkedIn Learning

SQL for Data Science

Basic Python Course – NGDB Consultancy

Data Cleaning in Python

Learning Excel: Data Analysis

Predictive Analytics: Data Mining

R Essential Training

Learning Data Visualization

Data Literacy: Exploring and Describing Data

IELTS Academic (Issued by the British Coucil-Dec-2024)

Fire Safety At Work (By Abacus International-2025)

First Aid and CPR (By Abacus International-2025)

PROJECTS

Analysis on Fraudulent Transactions (On Going)

- 🔗 <https://github.com/Sidra2499/Analysis-On-Fraud-Transactions>
- Technologies: Python, Pandas, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook, PowerBI
- Completed exploratory data analysis (EDA) and built machine learning models to detect fraudulent transactions
- Cleaned and preprocessed real-world financial transaction data, visualized fraud patterns, and applied classification algorithms to identify high-risk activities
- The project enhanced understanding of financial fraud trends and predictive modeling for anomaly detection

PySpark-based Sales Data Analysis project:

- 🔗 https://github.com/Sidra2499/Sale_Data_Analysis/blob/main/SalesData.ipynb
- Performed end-to-end sales data analysis using PySpark on Colab, including schema inference, missing value handling, deduplication, and descriptive statistics.
- Validated data types and cleaned 1,000+ records for reliable insights using Spark SQL functions and transformations.

ETL-Pipeline-for-E-Commerce-Data

- 🔗 https://github.com/Sidra2499/ETL-Pipeline-for-E-Commerce-Data/blob/main/ETL_Pipeline_for_E_Commerce_Data.ipynb
- Increased data processing efficiency by {30%} by building an automated ETL pipeline using Python and Shopify API.

Sales Data Analysis using PySpark (Google Colab)

- 🔗 https://github.com/Sidra2499/Sale_Data_Analysis/blob/main/SalesData.ipynb
- Performed sales data analysis using PySpark on Google Colab, including data cleaning, null handling, and duplicate removal on a 1,000+ record Dataset.
- Redefined data-driven decision-making by generating insights and visualizing trends with Matplotlib.

Weather-Data-Analysis

- 🔗 <https://github.com/Sidra2499/Weather-Data-Analysis-Pipeline>
- Used Python and OpenWeatherMap API to collect live weather data for 10 Pakistani cities. Processed and visualized key metrics (temperature, humidity, wind) using pandas and Matplotlib, and saved results to CSV.

Final Year Project: Online Food Ordering Mobile App for Train Passengers

- 🔗 https://github.com/Sidra2499/FinalYearProject_Mobile_App
- Technologies: Java, Android Studio, Firebase (Realtime Database & Authentication).
- Developed a mobile application that enables train passengers to browse menus, place food orders, and track delivery at upcoming stations.
- Integrated Firebase for real-time data management, order tracking, and secure user authentication. The system streamlined the ordering process and improved passenger convenience during travel.

LANGUAGES

English
Proficient



Urdu
Native

