

SHANTANU JOSHI

Targeting opportunities in the IT industry, particularly in Python Back-end Development, Data Engineering & KDB Development, aiming positions in metropolitan cities to leverage over 4 years of experience and drive organizational success.

Profile Summary

- Excelled in the IT industry for nearly 5 years, focusing on Python back-end development, data engineering, and KDB development, driving business growth through data-driven strategies.
- Leading the team as an Assistant Manager (Senior Developer) at Deloitte, Pune, India, since April 2022, driving innovation and growth in the organization.
- Possess a diverse skill set encompassing Python, SQL, Q (KX), AWS (Lambda, Glue, SNS, S3), and various IDEs.
- Spearheaded the seamless transition of Historical MIFID2 and BAU data to the AWS database, managing data classification, creating audit files, and ensuring accurate process reporting for enhanced efficiency.
- Proficient in developing Q scripts for querying KDB+ tables, Python scripts for data transformation, and reportable templates creation.
- Acknowledged for streamlining the PO Accrual process, leading to enhanced operational efficiency and precision in financial calculations.
- Notable recent accomplishment involves exactly reporting a substantial volume of trades and transactions exceeding 60 million, contributing meaningfully to the success of the MIFID2 regulator program.
- Skilled in Glue jobs, lambda, SNS, S3, pandas, SQL Server, and Python for data extraction, transformation, and reporting.
- Proficient in designing and implementing robust data pipelines, ensuring efficient data flow and processing through Python, SQL, and AWS services.
- Capacity to design, develop, and maintain Fast APIs using Python frameworks, adhering to best practices for API design, versioning, authentication, and documentation.
- Skilled in writing unit tests, integration tests, and end-to-end tests using testing frameworks, as well as debugging skills to troubleshoot and resolve issues professionally.

Education

- B.E. in Electronics and Telecommunication, PES Modern College of Engineering, Pune, Maharashtra, 2019

Work Experience

Assistant Manager (Senior Developer)

Deloitte, Pune

Apr'22 - Present

Projects Undertaken:

Historical Data Migration (AWS)

- Developing and maintaining process reporting mechanisms to monitor data migration progress and provide stakeholders with timely updates on project status.
- Conducting validation checks to ensure the accuracy and completeness of migrated data, mitigating the risk of data loss or corruption.
- Orchestrating project workflow to streamline data migration activities, from data extraction to loading stages, ensuring smooth execution and minimal disruptions.
- Communicating excellently with stakeholders to provide updates, address concerns, and ensure alignment with project timelines and deliverables.
- Ensuring compliance with regulatory standards, such as MiFID II, by implementing robust data classification and access control measures.

Contact

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Core Competencies

- API Development
- Requirement Gathering
- Technical Documentation
- Software Development Lifecycle
- Testing & Debugging
- Data Processing
- Data Warehousing
- Data Modelling
- Quality Assurance
- Risk Management
- Data Pipeline

Soft Skills

- Time-Management
- Team-Management
- Communication
- Adaptability

Technical Skills

- Languages: Python, SQL, Q (KX)
- Data bases: My SQL Server, KDB+
- Cloud: AWS - Lambda, Glue, SNS, S3
- IDE: PyCharm, Jupyter Notebook, Qstudio, Automation Anywhere V11, Bitbucket
- Operating Systems: Windows, Linux
- Python Libraries: Pandas, NumPy, Dask, CSV, OS, boto3, smtplib, requests, Multiprocessing, bs4, JSON, FastAPI

Certifications

- Automation Anywhere V11
- Azure AI 900 Fundamentals

Awards

- Dot of Fame - Live the Dot category for commitment towards Talent by Deloitte
- Dot of Fame - Move the dot - Individual for Change and Innovation, Collaboration, Client Centricity by Deloitte
- RAMP Award by Infosys BPM

Replay TTRT (Market Post Trade)

- Developed a replay program to re-report transactions to regulators, addressing inaccuracies in the initial reporting process.
- Created Q scripts to query multiple tables within KDB+ database and extract relevant data to CSV files on Linux servers.
- Developed Python scripts to transform extracted data and generate reportable templates compatible with the OneReg portal.
- Implemented efficient data extraction techniques from KDB+ database using Q scripts, ensuring accuracy and completeness of extracted data.
- Automated the replay program, query scripts, and data transformation processes to streamline reporting activities and minimize manual intervention.
- Ensured compliance with regulatory requirements by accurately re-reporting transactions to regulators, addressing any discrepancies or errors in the initial reporting.

PO Accrual Automation

- Developed and implemented an automated process for PO (Purchase Order) Accrual calculation, enabling finance users to accurately calculate accruals on a monthly basis.
- Designed and implemented a workflow incorporating AWS Glue jobs, Lambda functions, SNS (Simple Notification Service), and S3 (Simple Storage Service) as key services to orchestrate the PO Accrual process.
- Utilized pandas dataframes in Python for data extraction and transformation, ensuring accuracy and efficiency in processing PO data for accrual calculation.

Senior System Engineer

Infosys Ltd., Pune

Oct'19 – Mar'22

Projects Undertaken

Daily Production Reporting (MEA)

- Developed production reports using SQL Server and Python, incorporating data from various sources to provide insights into process performance and productivity.
- Automated the generation of daily reports and distribution to stakeholders, ensuring timely delivery of critical information to support decision-making.
- Integrated data from multiple sources and performed analysis using SQL Server and Python to generate comprehensive production reports.
- Communicated effectively with stakeholders to understand reporting requirements and ensure that reports met their needs and expectations.

MEA-II Order Amendments

- Provided production support for the order amendments process across various countries, ensuring smooth operations and timely resolution of issues.
- Conducted the development of change requests to improve the Order Amendments process, focusing on enhancing efficiency and effectiveness.
- Ensured optimization of the order amendments process through continuous improvement initiatives, addressing inefficiencies and streamlining work flows.

MEA-I Order Entry

- Successfully automated the order entry process for four different countries, each with distinct processes, utilizing Automation Anywhere for process development.
- Implemented MS SQL Server queries to manage data processing from SAP, ensuring efficient and accurate managing of information.
- Developed custom Python functions to expedite data processing, enhancing the speed and efficiency of the automation process.
- Tailored the automation process to accommodate the unique requirements of each country, ensuring seamless integration with existing workflow.



Personal Details

- Date of Birth: 18th August 1997
- Languages Known: English, Marathi and Hindi
- Address: Pune, 411038, Maharashtra, India