

Shantanu Khond

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SKILLS

Programming and Scripting | Java • Python • Typescript • T-SQL • DAX
Cloud Platforms | Azure (Azure Functions, Azure Blob Storage, Azure SQL, Azure Data Factory, Azure Databricks) • AWS • Databricks • Snowflake
Data Integration | Azure Data Factory • SSIS • Talend Studio
Storage | MSSQL • PostgreSQL • Azure Blob Storage • Amazon S3 • Azure CosmosDB • MongoDB • Amazon RDS
Reporting Tools | PowerBi • Apache Superset • SSRS
Serverless and Containerization | Azure function • AWS Lambda • Docker
Web Technologies | Angular • React • Bootstrap • CSS • Node • Express
Miscellaneous | Android • AWS Rekognition

EXPERIENCE

FULZ TECHNOLOGIES | DATA ARCHITECT

Aug 2023 - Present | Nagpur, MH, IN

Migration of Core Engine from Azure to AWS

- Designed and Architect-ed data video analysis engine to analyze video frame by frame and to provide near realtime reporting
- Implemented video analysis engine using databricks, Azure Blob storage, AWS Rekognition, Apache Superset, Postgres
- Populated Data warehouse using databricks
- Deployed and build reports on Apache Superset and Postgresql

Video Analytics Engine For Leap to perform frame by frame analysis

- Architect-ed and implemented video analysis engine using Azure Blob Storage, Azure Function, Azure SQL, Azure Data Factory and Azure Databricks
- Designed a robust solution for uploading large videos to Azure blob storage bucket using presigned APIs and ensuring security and reliability
- Implemented Video Processing using OpenCV, Azure Face, Pandas etc.
- Implemented real time data loading into databricks tables from json files using pyspark and SQL
- Designed and built PowerBi reports using databricks and MSSQL
- Implemented API for polling solution for checking if analysis's result is read and retrieving video analysis results

LTIMINDTREE (FORMARLY MINDTREE) | SENIOR DATA ENGINEER

Feb 2022 – July 2023 | Pune, MH, IN

ESG Reporting For Retail customer to report to EU Government

- Analyzed buisness requirment and identified source tables
- Discussed with factory IT teams to grant access and created linked servers
- Created SSIS Jobs to load till data acquisition tables and configured metadata jobs
- Created SQL views to perform complex calculations for each SKU and each Product Specification
- Developed PowerBi reports and provided SQLs to business to perform validation
- Provided Excel pivote tables to the buisness

Russia Warehouse Migration

CERTIFICATIONS

AZURE

- AZ-104: Azure Administrator Associate
- DP-203 Azure Data Engineer Associate
- AZ-900 Azure Fundamentals
- DP900 Azure Data Fundamentals
- SAA-C03 AWS Certified Solutions Architect - Associate

DATABRICKS

- Data Engineer Associate

GOOGLE CLOUD PLATFORM

- Professional Data Engineer

EDUCATION

NAGPUR UNIVERSITY

BTECH IN COMPUTER TECHNOLOGY

July 2019 | Nagpur, MH, IN

KDK College of Engineering

CGPA: 8.43 / 10.0

AWARDS

LTIMINDTREE

SPOT ON 'A' TEAM AWARD (2 TIMES)

Awarded for excellent thinking in financial period end for smooth financial submissions which led to great customer satisfaction.

EXEMPLARY PERFORMANCE AWARD

Awarded for exemplary performance, knowledge and commitment towards SD activities and successfully anchoring project deliverables and winning appreciations from customer's stakeholders.

LINKS

LinkedIn:// [shantanukhond](#)

GitHub:// [shantanukhond](#)

YouTube:// [@shantanukhond](#)

StackOverflow:// [shantanu-khond](#)

X:// [shantanukhond](#)

EXTRAS AND HOBBIES

Gardening • Youtuber Educator (400 Subscribers) • Gaming • Open Source Contributor (Apache Superset and Valkey)
• Youtuber Educator (10k Subscribers)

- Connected gathered requirements, identified and analyzed Systems, reports used by users
- Re-architected and developed File upload mechanism to Salesforce using Azure blob Storage
- Migrated Jobs to new servers scheduled and developed monitoring dashboard for jobs

Global IT Service Delivery

- Worked on SKU name fix issue which was causing product and brand reporting to provide incorrect data which business had to update manually
- Led and executed complex RLS design and implementation in PowerBi for various entities (markets, factories, managers, regions, etc.) using best practices and standards
- Streamlined and optimized PowerBI dataset refresh and views to reduce refresh time and avoid timeouts, improving the data quality and user experience
- Developed and maintained performance monitoring dashboards in PowerBi for all applications to monitor SSIS Jobs, providing insights and feedback on the engineering processes and outcomes
- Performed and supervised infrastructure tasks for MSSQL installed on Windows Server (backup check, filegroup check, reboot, indexing, etc.), ensuring the security and stability of the systems
- Developed and maintained performance monitoring dashboards for all applications, providing insights and feedback on the engineering processes and outcomes
- Designed and implemented MDM sync check automation for master data consistency, reducing errors and enhancing data integrity

FULZ TECHNOLOGIES | DATA ENGINEER ASSOCIATE

July 2019 – Jan 2022 | Nagpur, MH, IN

Data warehousing for healthcare customer

- Analyzed and structured required data required to build warehousing architecture using existing manually build excel reports
- Designed and implemented Data warehouse using Azure Data Factory, Talend, MSSQL and PowerBi
- Developed and scheduled ETL pipelines to integrate data from various sources, including Salesforce, into the data warehouse
- Applied machine learning (NLP) to extract relevant information from free text prescriptions, such as medicines, dosages, and timings
- Created wireframes and prototypes for data visualization and reporting purposes
- Defined business and technical specifications for each measure and KPI in the data warehouse
- Delivered reports with user manuals and business definitions to stakeholders and end-users

Taurus Coach Platform

- Conducted requirement analysis and feasibility studies to understand the business needs and challenges of the organization
- Designed high-level and low-level architecture diagrams and documentation for the proposed IT solutions, using AWS cloud services and best practices
- Developed and deployed scalable and secure backend applications using Node.js and AWS Lambda functions, following the serverless architecture pattern
- Deployed and managed the front-end applications on AWS EC2 instances, using automation tools and scripts
- Configured AWS Application Gateway and Lambda function as authorizer to provide authentication and authorization for the API endpoints

CURRICULUM AND FREELANCING PROJECTS

KDK COLLAGE OF ENG.

KDKCE Android App

- Developed android app for students to get all notification and details from college and department.
- Designed and created key value store database for processing instant notifications.
- Implemented notification using cloud messaging in firebase.
- Developed Backend in Angular using angular fire for teachers and management.
- Unit tested and integrated tested the modules.
- Pushed updates to add more functionality.

National Serving Scheme Website

- Developed frontend using Angular.
- Designed and created key value store database MongoDB.
- Implemented backend in node Js for login and adding other details.
- Explored cPanel and deployed website on hosting using File-Zila

- Designed and implemented a single-table database schema using AWS DynamoDB, optimizing the performance and cost of the data storage and retrieval
- Integrated external tools and services such as Ghost (for content creation), Stripe (for payment processing)
- Hosted and integrated workflow management tools on AWS EC2 instances to monitor and improve the development and deployment processes

PoDLabs Point of Purchase

- Implemented Deep Neural Networks and ML models for face detection, buyer demographics, sentiments capturing and facial angle (normal projection) Analyzing videos or live interactions per person and identify single emotion value from entire interaction.
- Explored Linux and Android OS for the IoT device.
- Ported Face recognition C++ based code to Android platform.
- Explored and implemented GNSS location data (with augmentation) for sub-meter accuracy.
- Designed and built analytics database for near real time reporting.
- Explored Business Intelligence tools (Superset Vs Power BI Vs BIRT)
- Created reports and dashboards with user security implementation.