

TANISHA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

TECHNICAL SKILLS

Languages & Core: Python (Boto3, Pandas, Regex), SQL, C++

Cloud & Serverless (AWS): Lambda, DynamoDB, S3, SNS, IAM, API Gateway, CloudWatch

DevOps & Tools: Git, GitHub Actions, Docker, Postman, Streamlit, Amazon Athena

Concepts: Serverless Architecture, Event-Driven Design, Infrastructure Scripting (IaC)

PROJECTS

Automated Expense Audit & ETL Pipeline | *Python, AWS Lambda, DynamoDB*

[Source Code](#)

- Architected a serverless ETL pipeline to digitize financial records, using AWS S3 Events to trigger automated processing workflows.
- Engineered a Heuristic Risk Engine to detect fraud anomalies (e.g., high-value/weekend transactions), implementing automated compliance controls.
- Implemented data transformation logic using Pandas and Regex to sanitize OCR outputs, resolving entity ambiguity with high precision.
- Performed ad-hoc data analysis on raw S3 audit logs using Amazon Athena (SQL), enabling querying of unstructured JSON data.

Distributed High-Concurrency Order Engine | *Python, Redis, AWS SQS, DynamoDB*

[Source Code](#)

- Architected a distributed system to handle burst traffic, decoupling API ingestion from processing using AWS SQS.
- Implemented Redis Distributed Locks (Mutex) to eliminate race conditions, ensuring 100% inventory consistency.
- Engineered an idempotent worker service that validates stock against DynamoDB, successfully rejecting duplicate orders.

Cloud Vault: Automated Backup Daemon | *Python, File System Automation, AWS S3*

[Source Code](#)

- Developed a multi-threaded background service using Python's Watchdog library to monitor file system events and replicate critical data to Cloud Storage in real-time.
- Implemented S3 Lifecycle Policies to automate data tiering (Standard to Standard-IA), optimizing long-term storage costs by 40%.

EDUCATION

Banasthali Vidyapith

Rajasthan, India

Bachelors in Computer Applications (BCA) – CGPA: 8.0/10.0

Aug. 2023 – Present

Navy Children School

Delhi, India

Senior Secondary Education (Commerce)

Completed May 2023

CERTIFICATIONS

AWS Certified Cloud Practitioner (CLF-C02) – Issued 2025