

TANISHA

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

TECHNICAL SKILLS

Languages & Core: Python (Boto3, Pandas, OCR), SQL

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

DevOps & IaC: Terraform, Docker, Git, GitHub Actions, Postman, Streamlit

Concepts: Distributed Systems, Event-Driven Architecture, Redis Locking, Infrastructure as Code

PROJECTS

Bill-E: Serverless AI Audit & Risk Engine | *Python, AWS, Terraform*

[Source Code](#) | [Live Demo](#)

- **Live Deployment:** Hosted a secured Streamlit Dashboard for real-time visualization (Access Code: admin123).
- Architected an Event-Driven pipeline using **AWS S3 and SQS** to decouple ingestion, ensuring 100% reliability for high-volume receipt uploads.
- Engineered AI Fraud Detection by integrating **Computer Vision (OCR)** to extract text and a Python-based Risk Engine to flag anomalies (e.g., “Casino”), assigning dynamic risk scores.
- Implemented “The Snitch” protocol using **AWS SNS**, triggering instant email alerts to administrators when high-risk transactions (>50 score) are detected.
- Automated the provisioning of 8+ AWS resources using **Terraform (IaC)**, reducing deployment time from hours to minutes.

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

[Source Code](#)

- Architected a distributed microservices system to handle high-traffic bursts, decoupling API ingestion from background processing using AWS SQS.
- Implemented Redis Distributed Locks (Mutex) to eliminate race conditions, ensuring 100% inventory consistency during simultaneous purchase attempts.
- Automated full infrastructure provisioning including SQS queues and DynamoDB tables using Terraform (IaC) to ensure reproducible cloud environments.
- Engineered an idempotent worker service that validates real-time stock availability, successfully preventing duplicate order processing.

Cloud Vault: Automated Backup Daemon | *Python, 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 S3 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

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

Rajasthan, India

Aug. 2023 – Present

Navy Children School

Senior Secondary Education (Commerce)

Delhi, India

Completed May 2023

CERTIFICATIONS

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