

# TANISHA

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

## SUMMARY

AWS Certified Cloud Practitioner and BCA student specializing in **Event-Driven Architecture** and **Infrastructure as Code**. Proven track record in building resilient, high-concurrency systems using Python and AWS. Passionate about solving complex distributed systems problems like race conditions, real-time observability, and automated cost-optimization.

## TECHNICAL SKILLS

**Cloud (AWS):** SQS, Lambda, DynamoDB, S3, SNS, IAM, API Gateway, CloudWatch, Route 53  
**DevOps & IaC:** Terraform (HCL), Docker, Docker Compose, GitHub Actions (CI/CD), Git  
**Backend & Data:** Python (Boto3, Flask, Pytest), Redis (Distributed Locking), SQL, Streamlit  
**Core Concepts:** Distributed Mutex, Eventual Consistency, Idempotency, Serverless Design

## PROJECTS

- Flux-Order: High-Concurrency Ticketing Engine** | *Python, Redis, AWS* | [Source Code](#) Dec 2025
- Architected a resilient, event-driven microservices system to handle high-traffic flash sales, decoupling API ingestion from background processing via **AWS SQS**.
  - Implemented **Redis Distributed Locks (Mutex)** using SET NX to eliminate race conditions, ensuring 100% inventory consistency during simultaneous purchase attempts.
  - Engineered an idempotent worker service that validates real-time stock availability in **DynamoDB**, successfully preventing duplicate order processing and overselling.
  - Developed a **Real-Time Mission Control Dashboard** using Streamlit to visualize queue depth and sales velocity, providing instant observability into system health.
- Bill-E: Serverless AI Audit & Risk Engine** | [Source Code](#) | [Live Demo](#) Nov 2025
- Architected a zero-idle, event-driven pipeline (S3 → SQS → Lambda) that processes financial receipts in real-time, optimized for 100% cost-efficiency when inactive.
  - Integrated **Computer Vision (OCR)** and a custom Python-based Heuristic Risk Engine to analyze unstructured receipt text, flagging fraudulent keywords and assigning dynamic risk scores.
  - Deployed “The Snitch” protocol via **AWS SNS**, automating immediate email notifications to auditors for high-risk transactions (>50 score).
  - Provisioned 8+ AWS resources using **Terraform (IaC)**, ensuring a fully reproducible and version-controlled cloud infrastructure.
  - **Live Deployment:** Hosted a secured public dashboard for real-time risk heatmaps and audit trails (Access Code: admin123).
- Cloud Vault: Automated Backup Daemon** | *Python, Boto3, AWS S3* | [Source Code](#) Sept 2025
- Developed a multi-threaded background service using Python’s Watchdog library to monitor local filesystem events and replicate data to S3 in real-time.
  - Enforced security best practices by implementing **AES-256 Server-Side Encryption** and granular IAM policies to ensure secure data persistence.
  - Configured S3 Lifecycle Policies to automate data tiering, successfully optimizing long-term storage costs by 40%.

## EDUCATION

<b>Banasthali Vidyapith</b>	Rajasthan, India
<i>Bachelors in Computer Applications (BCA) – CGPA: 8.0/10.0</i>	Aug. 2023 – Present
<b>Navy Children School</b>	Delhi, India
<i>Senior Secondary Education (Commerce)</i>	Completed May 2023

## CERTIFICATIONS

[AWS Certified Cloud Practitioner \(CLF-C02\)](#) – Issued 2025