

TANISHA

Alwar, Rajasthan | +91 8005521715 | Tanisha17016@gmail.com

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

SUMMARY

AWS Certified Cloud Practitioner and final-year BCA student specializing in **Backend Development** and **Event-Driven Cloud Architecture**. Proven ability to design resilient, high-concurrency systems using Python and AWS. Focused on solving complex distributed systems challenges, mitigating race conditions, and deploying secure, cost-optimized infrastructure.

EDUCATION

Banasthali Vidyapith

Bachelor of Computer Applications (BCA) – CGPA: 8.15/10.0

Rajasthan, India
Aug 2023 – May 2026

Navy Children School

Senior Secondary (12th): 86% | Secondary (10th): 88%

Delhi, India
Completed May 2023

TECHNICAL SKILLS

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

Frontend & DevOps: Next.js, React, Tailwind CSS, Docker, Terraform, Git, CI/CD

Backend & Data: Python (FastAPI, Flask, Boto3, Pytest), Redis (Distributed Locks), SQL

Core Concepts: Event-Driven Architecture, Microservices, REST APIs, Race Conditions

PROJECTS

Sentinel: AI-Driven Network Intrusion Detection | Python, Scapy, FastAPI, ML

Jan 2026 – Present

- Engineered a real-time NIDS backend using **Python** and **FastAPI** to analyze network packets and flag malicious traffic.
- Implemented packet sniffing and parsing logic utilizing **Scapy** to process high-throughput network data for downstream Machine Learning models.
- Developed a low-latency **REST API** to serve continuous threat intelligence and system metrics to a centralized dashboard.

Flux-Order: High-Concurrency Ticketing Engine | Next.js, Python, Redis, AWS

Dec 2025

- Architected a high-concurrency ticketing engine ([Live Demo](#)) to handle flash-sale traffic using a decoupled **Next.js** frontend and **Python** backend.
- Resolved critical race conditions (double-booking) by implementing **Redis Distributed Locks (Mutex)**, ensuring strict data consistency.
- Engineered an idempotent background worker service using **AWS SQS** and **DynamoDB** to process orders asynchronously and eliminate duplicates.

Bill-E: Serverless AI Audit & Risk Engine | Python, AWS Lambda, OCR

Nov 2025

- Designed a serverless, event-driven auditing pipeline (**S3** → **SQS** → **AWS Lambda**) to achieve 100% operational cost-efficiency.
- Integrated **OCR** algorithms to parse uploaded receipts and calculate dynamic fraud risk scores based on heuristic keyword detection ([Streamlit Demo](#)).
- Automated real-time alert notifications for high-risk audits (>50 score) by provisioning **AWS SNS** topics for immediate intervention.

EXPERIENCE & LEADERSHIP

Mayukh Tech Fest (Banasthali Vidyapith)

Rajasthan, India

Workshop Lead (Core Team)

Jan 2025 – Mar 2026

- Directed end-to-end logistics for technical workshops, managing speaker relations and coordinating resources for over 500+ attendees.
- Mentored and managed a sub-core team to execute live events, following a promotion from sub-core volunteer status in 2025.

CERTIFICATIONS & LANGUAGES

Certifications: [AWS Certified Cloud Practitioner \(CLF-C02\)](#) (2025)

Languages: English, Hindi, French (Diploma, Banasthali Vidyapith)